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# REPORT OF THE CHIEF ENGINEER.

OFFICE CHIEF ENGINEER WATER DEPARTMENT—CITY HALL,
BALTIMORE, January, 1898.

*To the Honorable Chairman and Members of the Water Board:*

GENTLEMEN: I beg herewith to submit my report for the year ending December 31, 1897.

Immediately upon assuming the duties of the office of Chief Engineer of the Water Board on January 15, 1897, I found that the Water Board had determined upon a general plan for the extension of the water supply of the city, prepared and submitted by Mr. Samuel M. Gray, of Providence, R. I., then consulting engigineer to the Board.

To explain the general conditions existing when Mr. Gray was called upon to furnish the plans above referred to, the following brief explanation is furnished:

The water supply of Baltimore is obtained from two sources—Jones' Falls and the Gunpowder. Up to 1882, Jones' Falls was the only source of supply. The water of this stream is impounded in Lake Roland and from there, by means of a brick conduit, is delivered to Hampden Reservoir and Druid Lake, and from thence sent to the city by gravity.

This supply becoming inadequate, the Gunpowder supply was introduced. The water of the Gunpowder is impounded in Loch Raven, and flows from there to Lakes Montebello and Clifton, from whence it flows by gravity to the city.

When the Gunpowder supply was introduced the city was divided, for the purposes of distribution, into three districts: The Low Service, supplied by gravity from the Gunpowder, and embracing generally all the territory below grade 100 A. M. T.; the Middle Service, supplied by gravity from Jones' Falls, and em-

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bracing generally all the territory between elevation 100 A. M. T. and 150 A. M. T., and the High Service, supplied from the Western High Service Reservoir and Guilford Reservoir, and embracing all the territory above elevation 150 A. M. T. Water is now pumped from Lake Clifton or the Gunpowder Supply to the Western High Service and Guilford Reservoirs.

The western pumping station in Druid Hill Park was originally designed for the purpose of pumping water from Druid Lake to the Western High Service Reservoir, (which was the only high service reservoir at that time), and was so used for some years, but after the introduction of the Gunpowder Supply, Guilford Reservoir was constructed and the eastern pumping station at Gay and Wolfe streets was built, and these reservoirs are now supplied with water pumped from this station. The Western High Service Reservoir is situated near the Park gate, at the Pimlico road, and Guilford, on Cold Spring lane, near the York road.

The great increase in population in the last ten years has so increased the consumption of water in the middle service district that the consumption now, in times of dry weather, is greater than the supply from the Jones' Falls. The increased demand in the low-service district has dangerously decreased the pressure in this section, and the high service consumption is rapidly equaling the capacity of the pumps at the eastern pumping station. In addition to the above the growth of the city in the direction of Walbrook and West Arlington in the west, and Waverly and Roland Park in the north and east, makes it necessary to furnish water to an elevation higher than that of any of the existing reservoirs, the elevation at West Arlington being 460 A. M. T., and near Roland Park 380 A. M. T.

The average daily consumption of water in the low and high-service districts, supplied from the Gunpowder and above described, is 32,588,450 gallons, and the average daily flow of the Gunpowder is 296,068,480 gallons. The average daily excess is, therefore, at present 263,480,030 gallons. The average daily consumption of water in the middle-service district, supplied from Jones' Falls and above described, is 11,590,480 gallons, and the average daily flow of Jones' Falls is 34,285,773 gallons.

The minimum daily flow of the Gunpowder recorded up to date is 74,482,200 gallons, and of the Jones' Falls 3,159,000 gallons. Without considering the storage capacity of reservoirs, periods of roily water and the period of maximum population to be supplied from the present sources of supply, the condition of the water supply at present is as follows: The Gunpowder supply at times of its minimum flow has a daily excess over and above the maximum daily consumption in the low and high-service districts of 33,070,200 gallons, and at times of minimum flow the Jones' Falls supply is deficient to the extent of 10,408,600 gallons.

The general proposition which presents itself, therefore, is whether or not at the present time it would be cheaper to seek an additional supply from another source and deliver it to the city at an elevation sufficient to supply the highest territory within the present city limits by gravity, or to utilize the excess in the Gunpowder and pump to the higher elevations as above described.

After a careful examination and thorough estimate of the cost of both projects, capitalizing the annual cost of pumping at three per cent., it was found that it would be cheaper to utilize the excess in the Gunpowder and pump from there to the higher elevations. The general scheme for the extension of the water supply, therefore, involves:

First. Re-districting the city by reducing the area in the low-service district and transferring all that portion which lies between elevation 50 A. M. T. and 100 A. M. T. to the middle service district, transferring the territory which lies between elevations 100 A. M. T. and 150 A. M. T. from the middle to the high-service district, the introduction of a new upper-service district and transferring the territory now supplied by the high-service reservoirs above elevation 250 A. M. T. from the high-service to the new upper-service district. In addition to the above, the high-service and upper-service districts will be divided into the eastern and western sections, the dividing line being practically the line of Jones' Falls. (See map back of the appendix).

Second. The construction of a new pumping station, to be situated at the intersection of North avenue and McMechen street, to

pump from the Gunpowder into Druid Lake to reinforce the middle-service supply; also to pump into the Western high-service reservoir to augment the supply for the Western high-service district.

Third. An increase of the pumping capacity at the Eastern Pumping Station, which station will be used to pump into Guilford Reservoir to supply the Eastern high-service district. Remodeling the Western High-Service Pumping Station in Druid Hill Park, and utilizing the same to pump to stand-pipes situated at West Arlington and near Roland Park, intending to supply the new upper-service districts, which embrace all that portion of the city which lies above elevation 250 A. M. T.

Fourth. Extending the mains in all portions of the city, and increasing the size of the same to give an increased supply in all the new districts, and to augment the pressure in the same.

The total expense of these various projects is estimated to cost two million dollars. The first step necessary to promote these projects was to prepare plans and specifications for the materials and contractors' plant required for the proper execution of the work. On April 1, 1897, these various plans and specifications had been prepared, proposals invited and contracts had been awarded. At that time the work on the extensions was commenced.

Since April 1, 1897, and up to January 1, 1898, over 259,000 feet of pipe have been laid, 198,000 feet of which has been laid since June 1. (See map back of appendix). This amounts to nearly 75 per cent. in length of the total amount to be laid. The new pumping station at Mt. Royal avenue and McMechen street is well under way. The changes at the Eastern Pumping Station have been completed and the alterations at the Western Pumping Station have been started. The stand-pipe at West Arlington has been commenced, and when spring opens the work will be actively pushed.

Changes have been made in the service districts as follows:

The area bounded by St. Paul, Mulberry, Fremont avenue and Lombard streets, has been transferred from the low to the middle-service district, thereby increasing the pressures in all that portion

of the retail business section on Lexington, Charles, Howard, Eutaw and Baltimore streets, and by cutting this section out of the low service and thereby reducing the daily consumption in the low-service district, the pressures along South street, Pratt street, Calvert street, etc., have been increased. This portion of the city was really without adequate fire protection, and this change, which is the most important under the new system, is not to be overestimated in its value to property holders. (For location see map back of appendix).

The section bounded generally by North avenue, Wolfe, Baltimore streets, and Patterson Park avenue, has been changed from middle to high service, thereby increasing the pressures in a large section heretofore without a proper supply of water.

Two of the most important changes in service contemplated under the new system have, therefore, been made during the year, and preparations for an additional change from middle to high service in the northwestern section are about completed. Other changes from high to upper service will follow shortly, and with reasonable good weather in the spring, all the contemplated improvements should be completed by September 1, 1898.

## REORGANIZATION.

The organization of the Engineer's Department at the beginning of 1897 was such as to preclude the expeditious execution of the contemplated improvements, and consequently a reconstruction of the department was immediately undertaken as one of the first steps towards the proper development of the work.

The department, as now constituted, is divided into five divisions: The Engineering Division, the Construction Division, the Mechanical Division, the County Division and the Auditing Division. The Assistant Engineer in charge of the Engineering Division has under his control the preparation of all plans, specifications and estimates, and all work requiring special or technical education. The Superintendent of the Construction Division has under his control all the street work, embracing the laying of new mains, repairs to mains, placing new services, putting in new meters, and other work of a similar nature. The Superintendent of the Mechanical Division

has charge of the machine shops, the pumping stations and the storage yards. The Superintendent of the County Division has under his supervision all of the property of the Water Board, on or about the reservoirs and conduits connecting the reservoirs, and such work as may be required on or about the reservoirs, such as dredging, cleaning, etc. The Auditing Division, in charge of the Chief Clerk, maintains all the accounts of the department, and keeps all records relating to the receipts and disbursements, cost of construction, etc.

The new arrangement has been found to work very satisfactorily, and by a system of accounts adapted to this construction of the department the cost of the various divisions of the department is equally and fairly maintained.

### NEW SYSTEM OF ACCOUNTS.

In this connection, I beg to say that I found an absence of the proper system of accounts in the department, and an entirely new and thorough system of accounts was inaugurated and put into operation on June 1, 1897. It will be seen by reference to the various exhibits compiled with this report that under the new system an accurate and detailed account is kept of the cost of all parts of the work, and a thorough check is maintained on all the expenditures of the department.

It would be impossible to go into the details of all the work done in connection with the reconstruction of the department and the introduction of the new system of accounts. It is only necessary to say that the change has effected great improvement in the efficiency of the department, and will ultimately result in a great saving.

Formerly work was done without any permanent record being kept of the same. At the present time no work is allowed, whether it be an extension of a water main, the construction of new machinery, changes to the present plant, introduction of new services, or location of meters, etc., unless the proper plans or specifications, or both, have been prepared for the same by the Engineering Division and approved by the Chief Engineer.

As the result of this change, the work of the department is being rapidly standardized, and a permanent record is kept of all extensions and changes of any character whatsoever.

### METER BRANCH.

Among the most important changes in the Construction Division was the reconstruction of the meter branch. It was found that of the 1,700 meters and indicators in service, fully two-thirds were out of order to a greater or lesser extent, and that there were no facilities for testing meters to determine their accuracy of registration. To more fully appreciate the condition of the meters, it is necessary to know that a number of meters have been in service for ten years or over, without any repairs, whereas the best practice in this country requires that a meter should be removed from service, tested, overhauled and adjusted at least every four years. A meter-testing set has been constructed, (a photograph of which is submitted herewith).

Meters are now calibrated before being placed in service, and all meters are periodically removed to determine their physical condition. The entire plant has been gone over and the great majority of meters put in proper repair. The city, for the purposes of convenience in taking the quarterly readings of the meters, has been divided into eight districts, the meter locations are systematically routed, and each meter has been given a number for the purpose of convenience in keeping an account of the cost of repairs. A system for accurate comparison of the condition of all meters has been devised, by reference to which it is readily seen how long a meter has been in service, when last tested, etc.

### FREE-WATER MOVEMENT.

There has been a movement on foot, which, upon the face of it, sounds most plausible and pleasing to many people—the so-called "free-water" movement. To introduce water to a city costs money, and as the funds of the city have to be raised by taxation, there is no such thing as free water. The interest on the bonds issued to pay for the construction of our water works has to be

paid, and the sinking fund has to be reimbursed. So, also, will the operating expenses of the Water Department continue, and have to be paid, whether the water rate, as at present constituted, be abolished, or whether these items of cost are transferred to the tax bill.

The amount of water actually needed by the city is not to be measured by the quantity supplied, for in most of our cities the quantity wasted is larger than that legitimately used. This is shown by the decrease in consumption when measures are adopted to check waste. People never think of saving what costs them nothing, and this holds true in the matter of water supplied by the city. If the gas company should abolish gas meters and furnish gas at fixed prices per annum, does any one doubt that the consumption would be doubled?

The experience of almost every city is alike in this respect, and I am inclined to the belief that rather than pass any ordinance abolishing the water tax, a regulation should be passed by the Water Board increasing the use of meters.

The water tax is now paid by the property owner, and the artisan or mechanic who is unable to purchase, and rents his home, has free use of as much water as he may dssire without any addition to his rent.

If the special water tax is abolished, the property owner will pay as before, and practically the same class of people who support the Water Department now will support it under the proposed change; and further, the water tax is so reasonable at present as to cause no serious inconvenience to any one. Baltimore enjoys as cheap water as any city in the United States, as is shown by the following table:

TABLE A.—Water Rates.

| City. | Approximate population in 1897. (Thousands.) | Fixture Rates. Dollars Per Year. | | | | | | Meter Rates. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Family. | Water Closet. | Bath Tub. | Wash Bowl. | Horse and Carriage. | Hose. | Min. Charge per year. | Price per 1,000 gallons in cents. | | Quantity at each per 1=1,000 gallons. | | Period. |
| | | | | | | | | | Max. | Min. | At max. price | At min. price | |
| Boston | 480 | $10 00 | $5 00 | | | $6 00 | $5 00 | $15 00 | 19 | Sp. | 150 | | |
| Buffalo | 372 | 8 00 | 2 50 | $1 50 | | 2 00 | | | 6 | | 3 | | |
| Brooklyn | 1,118 | 11 00 | | | | 2 50 | | | 10 | | 10 | | |
| Cleveland | 380 | 5 50 | 2 00 | 2 00 | | | | 10 00 | 5 | | 5 | | |
| Cincinnati | 342 | 6 50 | | 2 75 | $1 00 | 2 75 | | | 20 | 8 | †15 | †638 | Mo. |
| Chicago | 1,800 | | | | | | | | | | | | |
| Detroit | 309 | 5 00 | 3 00 | 2 00 | 1 00 | | | | 7 | Sl. | 22½ | | Mo. |
| Jersey City | 242 | | | | | | | | | | | | |
| Louisville | 196 | 8 00 | 3 00 | 2 50 | 1 00 | 4 25 | | | 15 | Sl. | †5 | | Dy. |
| Montreal | 243 | | | 1 00 | | 2 00 | 2 00 | | 30 | 15 | †1 | *10 | Dy. |
| New York | 2,000 | 8 00 | | | | 6 00 | | | 13 | 13 | | | |
| Philadelphia | 1,225 | 5 00 | 1 00 | 3 00 | 1 00 | 5 00 | 5 00 | | 40 | 40 | | | |
| Washington | 244 | 7 25 | | | | 1 50 | | 10 00 | 3 | 3 | | | |
| Baltimore | 500 | 6 00 | | | | 2 75 | 3 00 | 10 00 | 6 | 6 | | | |

Sp.–Special. Sl.–Sliding Scale. Dy.–Day. Mo.–Month. †Less than. *More than.

Again, if the water tax were merged into the general tax levy, and the Water Department were then supported by appropriations from the Council, the revenues raised for the purposes of water supply would surely be diverted to other uses by the Council, with the result that our system of water supply would deteriorate, and instead of having an abundant supply of pure water, we would find that owing to insufficient appropriations, our supply was being greatly endangered. Every user of steam would use far more water than at present; every small manufacturer would introduce water motors; hotels, office buildings, restaurants, saloons and warehouses would use water for many purposes for which they now use electricity or steam, with the result that the per capita consumption would so increase as to require additional mains, pumps and reservoirs, and add greatly to the cost of maintenance of the Water Department.

A "free water bill" was introduced in the Legislature of the State of Michigan. The bill was referred to a committee before which Mr. L. N. Case, General Superintendent of the Detroit Water-works, appeared. His able exposition of the fallacy of "free water," I submit herewith as presenting in a cogent and concise manner the great evils which would result from the inauguration of such a system.

"Under the present laws the expenditures for construction and operation of the Water Department of the City of Detroit, with the exception af $75,000 annually received from the tax levy, are assessed upon the properties in the city upon the basis of the consumption of water. Under this new bill the said expenditures are assessed upon the properties upon the basis of their valuations.

"I desire to make two statements to your honorable body, which I hope to prove to your satisfaction.

"The first statement is:

"Under the proposed law, doing away, as it does, with all personal responsibility, and necessarily also with the means to prevent excessive use and waste, the expenditures of the Water Department will, in a little while, be doubled, soon after will be trebled, and ever thereafter will continue to increase faster than the population or the valuation of properties.

"The second statement is:

"Inasmuch as the expenditures of a water-works depend almost entirely upon the volume of water, it will be manifestly unjust to assess the cost thereof upon the property or any other basis; because, as under this new bill, a person may use from double to five hundred times as much water as another, and pay the same, or less.

"To prove these two statements, gentlemen, it will be necessary to talk to you upon the general principles of establishing and maintaining a water-works, to say some few things about hydraulics, and to present such facts as may enable you to understand our present conditions and that of other water-works in the country.

"First, I wish to emphatically refute the idea prevailing among many, that because we have an inexhaustible supply, and because we have engines and pipes, that the only difference in our expenses for supplying larger quantities is the extra coal required under our boilers.

"There is as fixed a limit to our capacity as though we were supplying the city by means of teams and barrels; and in this connection I will ask you to suppose that we are doing so. If one team can distribute on the average 40 barrels of water a day, then every additional 40 barrels requires the purchase of an additional team. If 'A' uses 40 barrels each day, he requires the expense of purchasing and running one team. If 'B' uses 4,000 barrels each day, he requires the purchasing and running of 100 teams. Under these conditions who is there so unjust and unreasonable as to advocate the idea of requiring 'A' and 'B' to pay the same, should they happen to occupy properties of equal valuations.

"Now, in regard to our present conditions: We have four engines at our pumping station, the capacity of each being 24,000,000 gallons a day. One of these must remain idle as a reserve in case of accident or necessity for repairs in the other three, therefore our maximum pumping capacity is 72,000,000. We have three force-mains running down from the pumping station to the eastern part of the city. The capacity of each of these mains is 24,000,000. For every additional 24,000,000, or fraction thereof, we must purchase another engine and lay another force-main, which cost, at our ast enlargement, $350,000.

"The water then is carried into our distribution system, which is as limited in its capacity as that of the engines or force mains.

"To illustrate this, I submit the following, as showing our conditions three years ago:

| | |
|---|---|
| Head pumped against at station | 108 feet. |
| Average elevation to overcome | 43 " |
| Frictional loss | 26 " |
| Average head in the city | 39 " |

"This head was not satisfactory to the people, and it became necessary to increase it. The question from the Board was, 'What is the 26 feet frictional loss?' The answer was, 'Trying to force more water through pipes than is their capacity.' 'How can we reduce this?' 'By reinforcing the distributing system.' To that end several large mains were laid in different portions of the city, with the following results?

| | |
|---|---|
| Head pumped against at station | 108 feet. |
| Average elevation to overcome | 43 " |
| Frictional loss | 14 " |
| Average head in city | 51 " |

"This result was accomplished by an expenditure in our pipe system of $538,000.

"Increase our present supply to any great extent, and we return to our former conditions. Frictional loss increases proportionately as the square of the velocity. Increased quantities through the same pipes means increased velocities and a rapid decrease in the head supplied. Let me illustrate by the following drawing what is meant by frictional loss:

"The pressure at 'C' we will suppose is maintained at 70 feet. A pipe 4 inches in diameter will discharge 7 feet from the gauge at 'A,' 3,581 gallons per minute. At 'B,' 700 feet from the gauge, it will discharge only one-tenth this quantity. To supply the same quantity at 'B' as is supplied at 'A' with a 4-inch pipe will require a 10-inch pipe.

"From these facts, gentlemen, you will see that to keep down the expenses of a water-works, both for construction and operation, it is necessary to keep down the quantity of water pumped. The question, therefore, of preventing excessive use and waste becomes a most important one, and is a question that is agitating the minds of water-works' superintendents, engineers and other officials and citizens all over the world.

"The first fact to determine is: How much will be a liberal supply for a municipality? Let us see. Three years ago the City of London was arranging to go to Wales for their water supply. It became necessary to know how much water would be required by the city in order to know the size and number of conduits necessary, and to that end a hydraulic commission was employed, consisting of learned and eminent men, and the result of their study and investigation was that 42 gallons daily per capita was decided to be a generous allowance. Paris last year pumped 36 gallons, Liverpool, in 1881, 27½ gallons, although, as their engineer puts it, 'there is probably no modern city in which the legitimate demands for water and the facilities for using it are greater than in Liverpool.' Providence, in our own country, with about 85 per cent. of its services metered, pumped last year but 59 gallons. Considering these facts, gentlemen, I am justified in saying that 50 gallons per capita per day is a reasonable quantity to supply a city. If therefore, we are told that a community is consuming 200 gallons per day, what does it mean? It means four engines instead of one, four force-mains instead of one, four tons of coal instead of one, four engineers instead of one, four everything, gentlemen, instead of one, at an expense to the people of hundreds of thousands of dollars annually, without accomplishing any good whatever.

"Knowing this, does it not seem impossible that there can be

found even one man who will not favor restrictions to stop this squandering of the people's money?

"There has been found but one really efficient restriction to waste, and that is the meter, although assessing upon the basis of consumption as estimated is partially so. The meter prevents the introduction of uses which the consumer is unwilling to pay for. To illustrate: There are in the City of Detroit about 500 stationary engines, all of which would have a condenser attached did not the cost of the water exceed the saving to be effected. It takes thirty gallons of water to condense one from steam. Should an assessment on an engine amount to $25 per annum it would cost $750 for condensation. Pass this bill, gentlemen, and in one week every one of these engines will have a condenser, besides which innumerable mechanical contrivances, elevators, etc., will be run by water motors.

"For years, and up to 1889, Detroit, Buffalo and Philadelphia operated upon the assessment plan entirely. Detroit, in 1888, pumped a daily per capita of 204 gallons. Our capacity was more than exhausted, and complaints of short supplies were bitter and unceasing. March 6, 1889, I demonstrated to the Board that meters must be used to stop this enormous waste, or an enlargement of the works be entered into immediately at an estimated expense of $600,000. The introduction of meters was decided upon.

"The following conditions of these three cities in 1887 and 1896 will show the results of the introduction of meters in Detroit and the continuance of the old method in Buffalo and Philadelphia:

DAILY PUMPAGE IN MILLION GALLONS.

| | Buffalo. | Philadelphia. | Detroit. |
|---|---|---|---|
| 1887 | 38 | 88 | 36 |
| 1896 | 101 | 239 | 36 |

INCREASE OF POPULATION.

| Buffalo. | Philadelphia. | Detroit. |
|---|---|---|
| 34 per cent. | 46 per cent. | 56 per cent. |

"Detroit, at the same rate of increase of Buffalo and Philadelphia, which corresponded exactly with her increase previous to using meters, would have pumped 101,000,000 gallons. This

would have required an expenditure of over $2,000,000 for engines and pipes more than was expended, and an extra expense for pumping water of $94,900 for last year, with a proportionate increase for the intervening years.

"Now, gentlemen, what has this done for the people? If they have not benefited by this saving of water in reduced rates, then all this talk about economy is nothing but *rot*.

"Meters were introduced in 1889, and continued at the rate of $20,000 per annum, and so beneficial were the immediate effects that the Board commenced the reduction of their rates in 1890, and have continued from time to time in subsequent years to make other reductions. The following exhibit shows the effect on the income of the Board by these reductions:

REDUCTION OF RATES.

| | |
|---|---|
| 1891 | $22,133 |
| 1892 | 31,770 |
| 1893 | 45,797 |
| 1894 | 48,448 |
| 1895 | 52,575 |
| 1896 | 98,740 |
| 1897 | 142,000 |
| Total | $441,463 |

"Think of it, gentlemen, in seven years the Board of Water Commissioners have paid back to the people as a result of this restriction of waste, $441,000. In addition, it has expended $538,000 in such enlargement of the works as to increase the head supplied 33⅓ per cent. It has reduced its bonded indebtedness $400,000.

"This is the result, gentlemen, of 'squandering' during this time $151,000 for the purchase, placing and caring for about 5,000 meters.

"One more display and I have finished:

WATER RATES COLLECTED.

| | |
|---|---|
| 1890 | $387,000 |
| 1897 | 386,000 |

"Seventy-five thousand more people! One-third increased pressures!

"This is the way, gentlemen, that the 'irresponsible Board of Water Commissioners' are caring for the people's interests and 'squandering' the people's money!

"In conclusion, gentlemen, this spectacle is presented before you for consideration: Greater New York, Cincinnati, Buffalo, Philadelphia, Boston and other cities all over the United States, are urging in various ways the adoption of the methods pursued in Detroit, pointing to this city as an example worthy of emulation, and you are asked to favor a bill that will force the abandonment of these very methods and place the city in a far worse condition than any city in the world.

"But one example of the outrageous injustice of the bill is necessary, because this example, in a greater or lesser degree, is repeated thousands of times.

"The Majestic Building, corner Woodward and Michigan avenues, the erection of which is an ornament to the city, and the cause of enhanced valuations, does not pay today—nor will it for some time—two per cent. on the investment; and yet, gentlemen, pass this bill, and this same building will pay more water tax than all the breweries in the City of Detroit put together. And this is called by the father of this bill justice!

"Gentlemen, I thank you for the kindness and courtesy shown me."

TABLE B.

| Year. | Average Gallons Water Supplied to Each Inhabitant Daily in | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Boston. | Buffalo. | Brooklyn. | Cleveland. | Cincinnati. | Chicago. | Detroit. | Jersey City. | Louisville. | Montreal. | New York. | Philadelphia. | Washington. | Baltimore. |
| 1856 | ..... | ..... | ..... | ..... | ..... | ..... | 55 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1857 | ..... | ..... | ..... | 8 | ..... | ..... | 46 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1858 | ..... | ..... | ..... | 8 | ..... | 33 | 46 | 75 | ..... | ..... | ..... | ..... | ..... | ..... |
| 1859 | ..... | ..... | ..... | 11 | ..... | 40 | 48 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1860 | ..... | ..... | ..... | 14 | ..... | 43 | 52 | 77 | ..... | ..... | ..... | ..... | ..... | ..... |
| 1861 | ..... | ..... | ..... | 16 | ..... | 43 | 53 | ..... | 9 | ..... | ..... | ..... | ..... | ..... |
| 1862 | ..... | ..... | 17 | 19 | 39 | 41 | 58 | ..... | 14 | ..... | ..... | ..... | ..... | ..... |
| 1863 | ..... | ..... | 22 | 21 | ..... | 43 | 58 | ..... | 12 | ..... | ..... | ..... | ..... | ..... |
| 1864 | ..... | ..... | 26 | 22 | ..... | 41 | 57 | ..... | 14 | ..... | 62 | ..... | ..... | ..... |
| 1865 | ..... | ..... | 29 | 22 | ..... | 42 | 55 | 77 | 17 | ..... | ..... | ..... | ..... | ..... |
| 1866 | 55 | ..... | 33 | 22 | ..... | 43 | 60 | ..... | 17 | ..... | ..... | ..... | ..... | ..... |
| 1867 | 59 | ..... | 36 | 24 | ..... | 50 | 64 | ..... | 15 | ..... | 62 | 46 | ..... | ..... |
| 1868 | 62 | ..... | 43 | 25 | ..... | 58 | 67 | ..... | 16 | ..... | 68 | 51 | ..... | ..... |
| 1869 | 62 | ..... | 46 | 27 | ..... | 62 | 61 | ..... | 18 | ..... | 84 | 51 | ..... | ..... |
| 1870 | 60 | 58 | 47 | 33 | 40 | 63 | 64 | 84 | 29 | 49 | 90 | 55 | 127 | ..... |
| 1871 | 54 | 51 | 46 | 36 | ..... | 73 | 73 | ..... | 19 | 55 | 85 | 55 | 130 | ..... |
| 1872 | 55 | 61 | 50 | 40 | 60 | 75 | 83 | 99 | 22 | 55 | 88 | 54 | 131 | ..... |
| 1873 | 58 | 60 | 55 | 43 | ..... | 75 | 90 | ..... | 222 | 60 | 104 | 56 | 138 | ..... |
| 1874 | 60 | 60 | 58 | 45 | 45 | 84 | 87 | 86 | 24 | 66 | ..... | 58 | 138 | ..... |
| 1882 | 99 | 106 | 55 | 65 | 76 | 114 | 149 | 124 | 52 | 66 | 79 | 66 | 176 | 46 |

TABLE B—Concluded.

| Year. | Average Gallons Water Supplied to Each Inhabitant Daily in | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Boston. | Buffalo. | Brooklyn. | Cleveland. | Cincinnati. | Chicago. | Detroit. | Jersey City. | Louisville. | Montreal. | New York. | Philadelphia. | Washington. | Baltimore. |
| 1883 | | | | | | | | | | | | | | 49 |
| 1884 | | | | | | | | | | | | | | 46.5 |
| 1885 | | | | | | | | | | | | | | 45 |
| 1886 | | | | | | | | | | | | | | 49 |
| 1887 | | | | | | | | | | | | | | 54 |
| 1888 | | | | | | | | | | | | | | 57.5 |
| 1889 | | | | | | | | | | | | | | 56 |
| 1890 | 105 | 186 | ..... | 106 | 111 | 138 | 161 | 118 | 69 | 66 | ..... | 131 | 158 | 61 |
| 1891 | | | | | | | | | | | | | | 66 |
| 1892 | | | | | | | | | | | | | | 68 |
| 1893 | | | | | | | | | | | | | | 68 |
| 1894 | | | | | | | | | | | | | | 71 |
| 1895 | | | | | | | | | | | | | | 79.5 |
| 1896 | | | | | | | | | | | | | | 84 |
| 1897 | 125 | 268 | 77 | 124 | 138 | 110 | 130 | 80 | 86 | 74 | 95 | 175 | 180 | 88 |
| Per cent. of increase or decrease, 1882 to 1897: | | | | | | | | | | | | | | |
| Increase | 26.3% | 153% | 40% | 91% | 81.6% | 22.8% | ..... | ..... | 65.4% | 12.1% | 20.3% | 165% | 2.3% | 91.1% |
| Decrease | ..... | ..... | ..... | ..... | ..... | ..... | 12.8% | 35.5% | ..... | ..... | ..... | ..... | ..... | ..... |

PER CAPITA CONSUMPTION AND WASTE WATER PREVENTION.

The per capita consumption of water in all American cities is vastly in excess of that in cities abroad. The reason for this is easily ascertainable after a casual examination of the condition prevailing here and abroad, and is chiefly due to the greater density of population in Great Britain and on the Continent, and hence the greater difficulty in obtaining a pure supply of water within a reasonable distance of large cities and at a moderate cost. A few years ago the per capita consumption of water in several cities abroad, particularly in Great Britain, was as large as in many American cities, but the necessity of finding additional sources of supply at an enormous expense led to the adoption of methods of waste water prevention.

The tendency abroad has been, for the reasons before mentioned, to diminish the per capita consumption with increase in population, while in this country the per capita consumption has annually increased until it has reached alarming proportions in many cities. (See Table B, pages Nos. 42 and 43.)

Liverpool probably offers the best illustration of the amount of waste occurring where measures are not adopted to prevent it, and the result achieved by taking precautions to prevent waste without in any way curtailing the freedom with which water is used for all necessary household or industrial purposes.

Mr. G. F. Deacon, M. Inst. C. E., inventor of the Deacon waste-water meter, introduced a system of water protection in Liverpool at a time when the city was face to face with all the terrors of a water famine. By his system, which I will not undertake to describe here, the daily per capita consumption in a large portion of the city was reduced from 42 to 8 imperial gallons per day, and the municipal corporation was saved an expenditure of $70.000,000 necessary to obtain an additional and potable water supply.

When waste water is spoken of it is often associated with unnecessary use, or rather with waste in the modes of use; but this is by no means what is meant.

Let it be granted that every householder in this community has as many taps, baths and water-closets, as he or she may desire;

that there is no restriction whatever to the quantity of water he or she may draw; that his or her servants are duly careless, and that water under considerable pressure is always found when a tap is turned. By waste water is meant none of the water under such circumstances used or misused, so that if the whole waste referred to were entirely prevented, the use and misuse of water would still proceed in every household with impunity. The prevention of the waste of water, therefore, is not in any sense a restriction of the use or misuse of water, but may even conduce to a greater use or misuse, by rendering the water more readily available under high pressure, and at all times. Not that misuse is a good thing, but that absolute absence of restriction in the use of water for household purposes is a good thing. It would be better to allow ten gallons to be misused than to restrict the proper employment of a gill.

Having explained what the waste of water is not, it is desirable to know what it is. It is then any loss whatever between the point where water enters or is delivered to a town, and the taps or faucets and other domestic water fittings.

It includes: Leakage from leading mains underground, generally small in quantity; leakage from distributing mains underground, sometimes considerable in quantity; leakage from service pipes, from the distributing pipes about a dwelling or other building, and from fittings in poor repair, *almost universally great in quantity.*

The misuse or illegitimate use of water in Baltimore is due principally to the failure of the Water Board and the City Council in the past to enact necessary rules and regulations to prevent, and the failure of the employes of the Water Board to see that rules and regulations extant were properly observed. In this manner much revenue which should be derived by the Water Board is lost, and it will require months to make the necessary inspection to reclaim it.

TABLE C.

Samples of City Supplies, Giving Chemical Analysis.—Parts Per Million.

| City. | New York City. | Brooklyn. | Boston. | Cincinnati. | Chicago. | Philadelphia. | Washington. | Baltimore. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Lake Roland. | Loch Raven. |
| Class of Water | Surface. | Subsoil. | Surface. | Surface. | Surface. | Surface. | Surface. | Surface. | Surface. |
| Total Solids | 75.0 | 64.0 | 46.4 | 110.0 | 136.0 | 120.0 | 126.0 | 95.19 | 77.8 |
| Chlorin | 2.8 | 13.5 | 4.1 | 14.0 | 2.3 | 4.0 | 2.8 | 3.13 | 2.46 |
| Nitrogen as Free Ammonia | 0.009 | 0.001 | .006 | .003 | .005 | .01 | ..... | Trace. | Trace. |
| Nitrogen as Albuminoid Ammonia | .06 | .07 | .319 | .09 | .075 | .10 | .12 | .098 | .10 |
| Nitrogen as Nitrates | .28 | 16.0 | .106 | .26 | Trace. | 1.0 | 1.00 | 1.03 | 1.04 |
| Nitrogen as Nitrites | ..... | ..... | .001 | ..... | ..... | ..... | .001 | ..... | ..... |

These figures are taken from official reports, and do not represent averages of a large number of reports.

## FILTRATION.

The waste of water and the probable future cost per million gallons of water has a vital bearing upon the probability of filtration. The water supply of Baltimore in the past has borne an excellent reputation for purity, and today we have less pollution along the water-shed than almost any city in this country. These facts are borne out by table C, which shows the analyses of water for different cities in this country.

Despite the efforts made in the last year or two to create in the public mind an impression that our water supply was unfit for drinking purposes, the analysis, both chemical and bacteriological, made by the Health Department and by other reliable chemists and bacteriologists, show that the water is in a thoroughly healthy condition, and at present there is no need of filtration. With an increasing population along our water-shed, however, and an increasing liability to pollution, filtration will be necessary in the near future to assure a supply of pure water, or else large tracts of land will have to be purchased along the water-shed. The cost, however, of a filter plant such as would be required to filter the amount of water used by a city with the population of Baltimore, prohibits any movement to obtain the plant until such time as proper precaution and a due regard for the health and lives of our citizens makes it advisable.

There are two principal styles of filters now used in this country, which may be generally classified as "open" and "mechanical" filters. Briefly described the "open" or "English" filter bed is a tight reservoir, suitably under-drained and containing some six feet of stratified filtering material of progressive degrees of fineness, beginning at the bottom with six inches of broken stone and ending with an upper layer of fine sand. These filter beds are built on ground adapted for the purpose and suitably graded, and the water is introduced into the filter beds and allowed to percolate through the sand, and from thence passes off through the drains to the points of delivery. The capacity of such filter beds is from 2,000,000 to 5,000,000 gallons per acre daily. In fact, in many cases, the rate of filtration is not so great as 2,000,000 gallons per

day. The cost of these filter beds varies, depending upon local conditions, the manner of construction, etc., from $20,000 to $100,000 per acre, and the cost of operating per million gallons by this system of filtration is from $4.00 to $8.00. To filter the supply of Baltimore City at the present time would require the construction of beds capable of filtering 60,000,000 gallons per day. This is the minimum amount, and allows only a small margin for beds which are idle during the period required for cleaning and scraping. (The daily consumption in summer reaches 55,000,000 gallons.) Taking a very low figure for the cost of filters at this point at $30,000 per acre, the cost of such a plant would be $1,800,000, the interest on which would be, at 3½ per cent., $63,000 a year, and the cost of filtering the present average daily consumption of 44,000,000 gallons per day, at the lower figure of $4, would be $64,000 a year, a total for interest, sinking fund and operating expenses of say $152,000 a year.

Mechanical filtration, roughly outlined, consists in adding to the water to be filtered a minute dose of common alum, averaging between one-quarter and one-half of a grain per gallon, and then admitting the water to the filter, which is a cylinder of wood or boiler iron, three-quarters full of uniformly fine sand. The carbonates present in the water decompose the alum, with the formation of a white flocculent precipitate of aluminum hydrate, quite jelly-like in appearance, the action of this aluminum hydrate is much the same as that of the white of egg in clearing coffee. It entangles all suspended matter, diseased germs, as well as inorganic material, and deposits the same on the surface of the sand, whence it is removed and driven into the waste-pipe by a reverse current of filtered water at the time of cleaning the filter. Mechanical filters, up to the present time, have never been used for filtering supplies for large cities, and have been used principally in connection with factories requiring clear water in their operation. The principal difficulty in the way of mechanical filtration is the necessarily large rate of flow required in order to bring the cost of the same within reasonable limits The rate of filtration for mechanical filters varies from 100,000,000 to 140,000,000 gallons per acre daily. As before mentioned, in accordance with the best practice the rate of filtration

with the English type of filter beds is only two million gallons, and the question is raised by the best informed experts on filtration, whether or not any filter can effectually remove bacteria infinitesimally small at such rapid rates of filtration. I give herewith, however, an approximate estimate of the cost of such a plant.

As before a plant to filter sixty million gallons per day would cost $800,000, the interest on which at three-and-one-half per cent. would be $28,000, and the cost per million gallons for operation would be about $2.50. At the average daily consumption at the present time of forty-four million, this would mean $40,000 a year, making a total for interest, sinking fund and operating expenses, of $80,000 a year.

PROBABLE FUTURE COST OF WATER IN BALTIMORE.

At the present time there is invested in our water works $13,660,208.61. Of this amount the Water Board, out of its annual revenue, has to pay interest on the following loans:

| | | | |
|---|---|---|---|
| 1916 | $5,000,000 | 5 Per Cent | $250,000 |
| 1922 | 500,000 | 4 " " | 20,000 |
| 1926 | 1,000,000 | 4 " " | 40,000 |
| Annual interest | | | $310,000 |

The sinking fund on all the above loans is refunded by an annual assessment included in the tax rate. An additional loan of $2,000,000, at three-and-one-half per cent., maturing in 1945, is now being expended on the present extensions to the water supply. On December 31, 1897, there have been expended on account of this loan $698,000. By the provisions of the ordinance authorizing this loan the sinking fund is to be refunded from the revenues of the Water Board. It is safe, therefore, for the purposes of estimating, to include interest on the whole of 1945 loan and the annual payments to the sinking fund in the expenses of the Water Board for the year 1899.

In this connection I beg to refer here to the relation between the annual surplus of the Water Board and the redemption of maturing loans. One of the provisions of the ordinances creating the Water Board requires that on the first day of May and Novem-

ber of each year, after all the expenses of the Water Board, including interest on bonds for the preceding six months have been paid, the surplus remaining to the credit of the Water Board shall be turned over to the Commissioners of Finance, to be applied by them to the general sinking fund.

It will be seen, therefore, that additional or unnecessary expense imposed upon or incurred by the Water Board may cause—

1. A decrease in the annual surplus, which may in time create an annual deficit, and therefore a necessary increase in the water rates; or—

2. An increase in the tax rate necessary to redeem the various loans at maturity, and to provide for annual appropriations for the Water Board to cover such deficit.

In considering the probable future cost of water it must be remembered that heretofore a large proportion of the total consumption of water was delivered to the city by gravity, therby removing the cost of pumping; but as explained in the beginning of this report, the gravity supply can be continued only in the lower sections of the city, and the amount of pumpage must increase yearly.

The following tables D, F and G show the manner in which the amount of pumping has increased since 1883, and the estimated amount of pumping up to 1930.

The estimates of the total annual consumption and amount of pumpage, as shown in Table F, are based on the assumption:

That the per capita consumption will continue to increase in the same ratio it has increased since 1883, as is shown in Table B, pp. 41–42, and in Table G, on the assumption that measures will be adopted to prevent waste, and hence the per capita consumption will remain constant or decrease. From Table B it is seen that the increase in Baltimore since 1883 is 91.1 per cent., which is greater than in any of the cities mentioned except Buffalo and Philadelphia. If measures are adopted, as recommended, to prevent waste, the rate of increase will be diminished, in fact there should be no increase, but rather a reduction in the per capita consumption. On the other hand, if any measures are passed abolishing the water tax, or restricting the introduction of meters, the estimate is too low.

TABLE D.

Per Cent. Increase since 1883 of Total Annual Consumption, Annual Amount Pumped, Annual Expenses at Pumping Stations, Annual Revenues from Water Rents, Population and Daily Consumption Per Capita.

| Year. | Total Consumption. | Amount Pumped. | Expenses at Pumping Stations. | Revenue from Water Rents. | Population. | Consumption Per Capita. |
|---|---|---|---|---|---|---|
| 1884 | —2.0 | 14.5 | 11.2 | —7.0 | 2.7 | —5.1 |
| 1885 | —3.8 | 20.3 | 17.5 | —7.5 | 5.3 | —8.2 |
| 1886 | +8.2 | 25.6 | 20.6 | —3.3 | 7.9 | 0.0 |
| 1887 | 21.0 | 28.5 | 38.9 | +1.3 | 10.2 | +10.0 |
| 1888 | 32.7 | 29.1 | 30.2 | 2.5 | 12.6 | 17.4 |
| 1889 | 31.8 | 51.1 | 40.7 | 0.9 | 15.0 | 14.3 |
| 1890 | 46.6 | 83.8 | 41.4 | 4.1 | 17.0 | 24.5 |
| 1891 | 60.1 | 108.5 | 43.3 | 11.6 | 18.7 | 34.7 |
| 1892 | 68.8 | 119.8 | 71.9 | 13.6 | 20.6 | 38.8 |
| 1893 | 70.9 | 188.0 | 160.7 | 19.7 | 22.2 | 38.8 |
| 1894 | 79.6 | 152.1 | 96.0 | 19.8 | 23.9 | 44.9 |
| 1895 | 104.5 | 187.6 | 52.0 | 21.2 | 25.7 | 62.2 |
| 1896 | 118.4 | 267.0 | 45.9 | 25.6 | 27.2 | 71.4 |
| 1897 | 132.7 | 310.8 | 34.8 | 23.9 | 28.7 | 79.6 |

TABLE F.—Based on an Increasing Per Capita Consumption.

| Year. | Daily per capita consumption, gallons. | Population. | Total annual consumption, gallons. | Total annual amt. of pumping, gallons. | Amt. of pumping, per cent. of total consumption. | Total cost of pumping. | Annual operating expenses. | Annual revenues. |
|---|---|---|---|---|---|---|---|---|
| 1896 | 84 | ..... ..... | 15,147,500,000 | 2,927,752,426 | $19\frac{3}{10}$ | $18,971 00 | $307,541 00 | $790,015 00 |
| 1899 | 94 | 512,500 | 17,583,875,000 | 6,864,413,000 | 39 | 35,695 00 | 352,000 00 | 838,000 00 |
| 1909 | 124 | 630,000 | 28,513,800,000 | 11,828,000,000 | $41\frac{5}{10}$ | 61,506 00 | 515,600 00 | 1,050,000 00 |
| 1920 | 157 | 794,000 | 47,500,170,000 | 21,336,000,000 | $44\frac{9}{10}$ | 110,947 00 | 691,600 00 | 1,270,000 00 |
| 1930 | 187 | 1,000,000 | 58,255,000,000 | 40,384,000,000 | $69\frac{3}{10}$ | 210,000 00 | 851,600 00 | 1,470,000 00 |

TABLE G.—Based on a Decreased and Constant Per Capita Consumption.

| Year. | Daily per capita consumption, gallons. | Population. | Total annual consumption, gallons. | Total annual amt. of pumping, gallons. | Amt. of pumping, per cent. of total consumption. | Total cost of pumping. | Annual operating expenses. | Annual revenues. |
|---|---|---|---|---|---|---|---|---|
| 1896 | 84 | ..... | 15,147,500,000 | 2,927,752,000 | $19\frac{3}{10}$ | $18,971 00 | $307,541 00 | $790,015 00 |
| 1899 | 70 | 512,500 | 13,061,525,000 | 4,760,922,000 | $36\frac{4}{10}$ | 24,757 00 | 352,000 00 | 838,000 00 |
| 1909 | 70 | 630,000 | 16,096,500,000 | 6,100,177,000 | $37\frac{9}{10}$ | 31,723 00 | 515,600 00 | 1,050,000 00 |
| 1920 | 70 | 794,000 | 20,286,700,000 | 8,131,745,000 | $40\frac{1}{10}$ | 42,285 00 | 691,600 00 | 1,270,000 00 |
| 1930 | 70 | 1,000,000 | 25,550,000,000 | 11,922,305,000 | $46\frac{6}{10}$ | 61,996 00 | 851,600 00 | 1,470,000 00 |

Mr. Samuel M. Gray, in his report to the Water Board, estimates that the present supply of the city will be sufficient up to the period of 1,000,000 population. From estimates of the Sewerage Commission, based on the United States census, Baltimore police census, and estimates of the Health Department, the period of 1,000,000 population will fall between 1920 and 1930. At that time a new source of supply will have to be sought. Mr. Gray's estimate that the present supply is sufficient until a period of one million population is based on the assumption that the per capita consumption will be the same at that time as now, or in other words, that the per capita consumption will not increase henceforth.

This is certainly not a fair basis for the purpose of estimating, unless measures are speedily adopted to prevent the waste of water, and the meter system is extended.

By reference again to table B, pp. 41-42, it is seen that of the fourteen cities mentioned, the per capita consumption in twelve has steadily increased, the only two showing any reduction being Detroit and Jersey City. In Detroit, as shown in the paper of Mr. L. N. Case, herewith submitted, the meter system has been extensively introduced, and Jersey City has been suffering from a slack water supply.

It is therefore safe to presume, that the per capita consumption will increase steadily from now on, particularly in view of the fact that a very small number of meters are now in use, and changes in the political complexion of the city will probably cause changes in the management of the Water Board, and hence a vascillating policy.

It follows that unless proper methods are adopted to check waste the present supply will not be sufficient up to the period of 1,000,000 population, and additional sources will have to be procured before 1920, but in order to err rather in underestimating than in overestimating the future expenses of the department, no charge is made for additional expenditures until 1930. The introduction of water from an additional source would certainly cost not less than fifteen million dollars, and probably more, so that figure is taken.

The following Table, J, showing the probable future revenues and expenditures of the Water Board up to 1930, with and without a filter plant, gives the probable expenditures of the department in 1899, 1909, 1920 and 1930, as compared with the expenditures in 1896, without filtration, and with filtration—first, with a normal rate of increase in the per capita consumption from 1896 to 1930, and as shown by the figures at the head of the columns; and second, with a constant per capita consumption of 70 gallons per day.

One more exhibit. Table H shows the net taxable basis of the city, together with the revenues and expenditures for every year between 1879 and 1897. It is seen that in the last twenty years the net taxable basis has increased only $18,000,000, while the yearly expenditures have increased $3,000,000. The appropriations at present are all too small for the proper maintenance of our public works and schools, and at the same time we have a tax rate of $2.00. We have no sewers, few improved streets, lack of school facilities, an insufficient equipment for our Fire Department, and the Police Board requires a larger force.

The Sewerage Commission estimates the cost of complete sewerage system, with filtration plant (the plant which will probably be constructed owing to the popular prejudice against the dilution project) to cost about $12,000,000 for a population of 1,000,000; loans for new schools are proposed to the amount of $3,000,000. It will require at least $5,000,000 to lay improved pavements; conduits for electric wires, $1,000,000, etc. (Table J).

As the $1,000,000 conduit loan is already included in the estimate of the net debt made by City Register Stone for 1897, it does not appear under the probable future expenditures. To make the estimate conservative, it is assumed that only $2,000,000 will be spent on improved streets up to 1909 and $6,000,000 for sewerage.

The following estimates cannot possibly include all contingent expenses arising from year to year; such as refunding, necessary internal improvements unforseen, etc., so that they may be considered conservative, particularly in view of the fact that with a high tax rate the revenues of the city are insufficient to cover the

## TABLE H.

A Table Showing Net Taxable Basis, Tax Rate, Revenues and Expenditures of Baltimore City for Each Year from 1877 to 1897.

| Year. | Taxable Basis of the City (First Twenty Wards). | | Securities (Basis of $2.00 per $100.) | Taxable Basis Annex at City's Tax Rate. | | Total Taxable Basis. | Tax Rate. | | Revenue. | Expenditures. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Real. | Personal. | | Real. | Personal. | | City. | State. | | | |
| 1877.. | $185,092,990 | $85,191,456 | ..... | ..... | ..... | $270,284,446 | $1 75 | .17½ | $12,176,736 81 | $12,181,394 97 | |
| 1878.. | 179,894,062 | 75,423,891 | ..... | ..... | ..... | 255,317,953 | 1 90 | .18¾ | 11,077,398 43 | 11,184,577 47 | |
| 1879.. | 189,413,248 | 70,239,578 | ..... | ..... | ..... | 259,652,826 | 1 50 | .18¾ | 7,428,704 77 | 7,296,492 22 | Annex |
| 1880.. | 187,016,624 | 65,106,367 | ..... | ..... | ..... | 252,122,991 | 1 37 | .18¾ | 7,397,223 01 | 7,403,415 44 | was first |
| 1881.. | 186,241,526 | 63,996,316 | ..... | ..... | ..... | 250,237,872 | 1 37 | .18¾ | 6,896,542 95 | 6,875,107 31 | includ- |
| 1882.. | 188,433,884 | 61,472,766 | ..... | ..... | ..... | 249,806,650 | 1 37 | .18¾ | 7,747,792 11 | 7,864,135 68 | ed by |
| 1883.. | 190,838,301 | 60,803,017 | ..... | ..... | ..... | 251,641,318 | 1 50 | .18¾ | 9,103,315 09 | 9,034,932 29 | the city |
| 1884.. | 192,515,754 | 61,064,149 | ..... | ..... | ..... | 253,579,903 | 1 60 | .18¾ | 8,068,249 94 | 7,869,450 86 | in 1888. |
| 1885.. | 195,198,081 | 61,116,368 | ..... | ..... | ..... | 256,314,449 | 1 60 | .18¾ | 7,665,133 70 | 7,972,901 69 | |
| 1886.. | 198,324,916 | 60,209,335 | ..... | ..... | ..... | 258,534,245 | 1 70 | .18¾ | 7,886,076 89 | 7,815,484 78 | The tax |
| 1887.. | 201,339,615 | 66,500,286 | ..... | ..... | ..... | 267,839,901 | 1 60 | .18¾ | 8,446,439 00 | 8,403,929 80 | rate in |
| 1888.. | 204,289,288 | 65,708,591 | ..... | No assessment made until 1889 | | 269,997,880 | 1 90 | .17¾ | 9,163,361 83 | 9,169,530 71 | Annex 60c. per |
| 1889.. | 207,214,335 | 67,345,571 | ..... | $7,151,176 | * ..... | 282,751,380 | 1 90 | .17¾ | 10,497,568 35 | 10,418,976 23 | $100. |
| 1890.. | 209,792,541 | 70,365,986 | ..... | 7,748,718 | ..... | 287,907,245 | 1 85 | .17¾ | 9,719,414 99 | 9,590,868 07 | |
| 1891.. | 211,707,640 | 72,281,420 | ..... | 9,645,840 | ..... | 293,631,900 | 1 55 | .17¾ | 10,273,398 79 | 9,943,678 70 | Tax rate |
| 1892.. | 213,845,342 | 73,398,600 | ..... | 8,874,054 | $1,875,980 | 298,393,976 | 1 55 | .17¾ | 9,136,928 82 | 9,432,155 35 | on se- |
| 1893.. | 217,533,759 | 76,556,051 | ..... | 8,460,108 | 2,380,068 | 304,929,986 | 1 55 | .17¾ | 11,288,581 49 | 10,716,199 95 | curities |
| 1894.. | 222,727,625 | 74,101,619 | ..... | 8,262,216 | 1,978,770 | 307,070,230 | 1 70 | .17¾ | 12,914,068 98 | 13,217,503 86 | 30c. per |
| 1895.. | 225,993,140 | 74,326,747 | ..... | 8,504,280 | 2,279,592 | 311,103,759 | 1 75 | .17¾ | 13,503,440 88 | 12,982,879 53 | $100. |
| 1896.. | 227,959,117 | 71,836,073 | ..... | 7,939,602 | 1,921,329 | 309,656,121 | 2 00 | .17¾ | 13,662,978 52 | 13,804,364 92 | |
| 1897.. | 205,931,680 | †61,841,213 | $9,419,994 | 8,407,020 | 2,463,766 | 288,063,673 | 2 00 | .17¾ | 15,604,125 64 | 15,017,796 88 | |

* Taxable basis in Annex not divided between real and personal until 1892.

† Included securities assessed in Annex.

TABLE I

Probable Future Revenues and Expenditures of the Water Board up to 1930, With and Without a Filter Plant.

| Year. | 1896. | 1899. | | 1909. | | 1920. | | 1930. | |
|---|---|---|---|---|---|---|---|---|---|
| Daily consumption, per capita, in gallons | 84 | 94 | 70 | 124 | 70 | 157 | 70 | 487 | 70 |
| Interest on loans outstanding: | | | | | | | | | |
| 1916, $5,000,000, 5 per cent | $250,000 | $250,000 | | $250,000 | | | | | |
| 1922, $500,000, 4 " | 20,000 | 20,000 | | 20,000 | | $20,000 | | | |
| 1926, $1,000,000, 4 " | 40,000 | 40,000 | | 40,000 | | 40,000 | | | |
| 1945, $2,000,000, 3½ " | | 70,000 | | 70,000 | | 70,000 | | $70,000 | |
| Interest on loans for new supply: | | | | | | | | | |
| 1970, $15,000,000, 3½ per cent | | | | | | | | 525,000 | |
| Total interest | $310,000 | $380,000 | $380,000 | $380,000 | $380,000 | $130,000 | $130,000 | $595,000 | $70,000 |
| Refunding Sinking Fund Loan, 1945 | | $25,000 | $25,000 | $25,000 | $25,000 | $25,000 | $25,000 | $25,000 | $25,000 |
| " " " " 1970 | | | | | | | | 125,000 | |
| Total for refunding | | $25,000 | $25,000 | $25,000 | $25,000 | $25,000 | $25,000 | $150,000 | $25,000 |
| Cost of pumping | $18,971 | $35,695 | $24,757 | $61,506 | $31,723 | $110,947 | $42,285 | $210,000 | $61,996 |
| Operating expenses, including necessary extensions of mains for new services | $307,541 | $352,000 | $352,000 | $515,600 | $515,600 | $691,600 | $691,600 | $851,600 | $851,600 |
| Total expense per annum, without filtration. (A) | $636,512 | $792,695 | $781,757 | $982,106 | $952,323 | $957,547 | $888,885 | $1,806,600 | $1,008,596 |
| Revenues from water rents, etc. (C) | $790,015 | $838,000 | $838,000 | $1,050,000 | $1,050,000 | $1,270,000 | $1,270,000 | $1,470,000 | $1,470,000 |
| Surplus or deficit. (A–C) | +$153,503 | +$45,305 | +$56,243 | +$67,894 | +$97,677 | +$312,453 | +$381,115 | —$336,600 | +$461,404 |
| Cost of filtration. (B) | | $176,351 | $130,940 | $285,000 | $160,965 | $573,050 | $202,867 | $682,550 | $255,500 |
| Total expense per annum, with filtration. (D), (A+B) | | $969,046 | $912,697 | $1,267,106 | $1,113,288 | $1,530,597 | $1,091,752 | $2,489,150 | $1,264,096 |
| Surplus or deficit. (C–D) | | —$131,046 | —$74,697 | —$217,106 | —$63,288 | —$260,597 | +$178,248 | —$1,019,150 | +$205,904 |

TABLE J.

1909.

| | |
|---|---|
| Probable and necessary expenditures before 1909: | |
| Sewerage | $6,000,000 00 |
| Improved pavements | 2,000,000 00 |
| New schools | 3,000,000 00 |
| Total | $11,000,000 00 |
| Present net indebtedness, including authorized but unissued stock in treasury | 21,945,007 48 |
| Total | $32,945,007 48 |
| Less increment to sinking fund | 7,000,000 00 |
| Total net debt in 1909 | $25,945,007 48 |

Taxable basis in 1909 ..... $348,000,000
Net debt in per cent. of taxable basis..... 7.45 per cent.

1930.

| | |
|---|---|
| Probable and necessary expenditures before 1930: | |
| Sewerage | $12,000,000 00 |
| Improved pavements | 8,000,000 00 |
| New schools | 4,000,000 00 |
| Water supply | 15,000,000 00 |
| Total | $39,000,000 00 |
| Present net indebtedness, including authorized but unissued stock in treasury | 21,945,007 48 |
| Total | $60,945,007 48 |
| Less increment to sinking fund | 25,000,000 00 |
| Total net debt in 1930 | $35,945,007 48 |

Taxable basis in 1930..... $440,000,000
Net debt in per cent. of taxable basis..... 8.17 per cent.

ordinary expenditures, and hence the issue of bonds is the only means of procuring money required for necessary public improvements.

We find that the net debt will probably continue above the 7 per cent. limit for years to come, unless our franchises are carefully watched and made to yield a revenue. We see that with a normal increase in per capita consumption the Water Department, if filtration becomes necessary, will show an annual deficit, instead of a surplus, and even without filtration, when an additional source of supply is necessary, the annual deficit will reach considerable proportions.

By reference again to Table I it is seen that if the per capita consumption is reduced, and maintained at 70 gallons per day, the Water Department will in the future be self-supporting, even if filtration is introduced, and the period for obtaining a new source of supply will be deferred until after the year 1930.

It follows, therefore, that it is folly in view of what has been said and the explanation which has been given of the relation between the so-called "free-water movement" and the per capita consumption, to consider for a moment the abolition of the water tax.

It behooves the City of Baltimore, after a careful consideration of their financial condition, to do everything to maintain their Water Department as a self-supporting and independent institution, and to defer the introduction of a filtering plant as far as possible.

I would recommend, therefore—

First. The introduction of a system of waste-water prevention, such as already has been planned and inaugurated.

Second. An increase in the number of meters. That all saloons, hotels, warehouses, manufacturing establishments, stables, public or private, drug stores and any other building using water for other than household purposes be required to take their supply through a meter.

Third. The passage of an ordinance by the City Council giving power to the Water Board to appoint an Inspector of Plumbing, who shall report to the Chief Engineer, and who shall be author-

ized and empowered to require all leaky and faulty water pipes which may be discovered by means of the waste-water detection system, to be repaired within ten days after notice so to do, and imposing such fines and penalties as may be expedient in the event of the failure of property-holders to conform with the instruction or direcrions given by the aforesaid Inspector of Plumbing.

### NEED OF OFFICE FACILITIES.

This department is greatly in need of proper office facilities for the economical conduct of the business of the department. The rooms at present occupied by the engineering division of the Water Department in the City Hall are entirely inadequate to its needs, and the construction division at the old City Hall is so cramped for room that it is almost impossible at times to carry on the work of this division. No better location could be found for the construction division than the present site of the old City Hall, and as this building is about to collapse, I would strongly urge that the Water Board provide for the erection of a new building on the site of the old City Hall, planned with a view of concentrating all the offices of this department at the one point. At the present time, the engineer's office, the engineering and auditing division, are in the City Hall ; the construction division is at the old City Hall, and the mechanical division situated at the eastern pumping station at Gay and Wolfe streets. The separation of the various departments in this way is the cause of a waste of a great amount of time, and a new building could be erected in which offices for the Chief Engineer, engineering and auditing division could be located, and ample facilities could be provided for the construction division, in the way of store rooms, tool rooms, etc. In fact, if so desired, the Registrar's division could be placed in the same building, and in this way the department could be united, and the officials brought in close communication with the Chief Engineer. In this connection the developments of modern engineering require that every Water Department should be equipped with the proper testing and chemical laboratories, and as at present situated there is no possible room for such necessary adjuncts to the efficient administration of the department.

LOCATION OF SUPPLY PIPES.

It has been customary in this department in the past, to allow services or supply pipes to be taken from mains laid in alleys of ten feet in width, in many cases of even less. In fact the present charge for services rather encourages than discourages this practice, as the charge for new services from the rear is only $6 each, while from the front the charge is $12. I suppose that this difference in charges for services from the rear and front originated for the reason that as a rule services from the front are longer and cost therefore slightly more to construct. (It is understood, of course, that the city only extends the services as far as the stop box on the curb line.) As a flat price is charged for new services, both rear and front, there is no real reason for making a difference, as the sole object of the charge is to cover the expense to the department of placing the new services, and this could be done as readily by making a uniform charge both front and rear. The result, however, of this discrimination in favor of services from the rear is everywhere apparent, and has created a condition of affairs in the reticulation system which, I think, is probably unparalleled in this country.

It is reasonable to suppose that a builder who has 15, 20 or 30 new houses into which he desires to introduce water, seriously objects to paying the $6 additional for each house to obtain the water from the front. In the case of a man building 30 new houses, a number not at all unusual, the additional cost would be to him $180. It follows, therefore, that this builder, who has no interest in the proper design of the reticulation system, and, in fact, has little or no knowledge of the same, strenuously objects to the increased cost to him if he is required to take water from the front, particularly as the great majority of houses now being built in Baltimore are constructed on a very close margin of profit. The result of this dual rate is, therefore, that in almost every instance where application is made for water, and the applicant is required to take water from the front, there is great dissatisfaction on the part of the applicant, who feels that he is unjustly and unfairly treated at the hands of the engineer of your Board. The builders in the city have, owing to the almost universal requirement that water

should be taken from the front in the past year, evolved a number of arguments in favor of the introduction of water from the rear and in fact have gone so far as to petition your Honorable Body to require that all mains shall be laid in alleys and water introduced therefrom.

Such a rule or regulation is to be seriously deplored, as no matter what quality of water is sent to the city, or how carefully the water-shed is guarded and the quality of water and its purity watched, the result with mains extended in the alleys will be the creation of a number of dead ends, with the consequent stagnation of the water in the same. This stagnation causes the water to become foul, discolored and possessed of a disagreeable odor when delivered at the tap or faucet, and consequently frequent complaints we receive from consumers. Our alleys in Baltimore are laid off with no system; in the great majority of instances the alleys are not continuous, stopping in the middle of blocks or running at right angles to their original direction, so that it is impossible to provide means for the free circulation of water when mains are laid therein.

Circulation in the mains is absolutely necessary for the supply of potable water, and the ideal reticulation system is one in which every block is bounded on four sides by mains connected together so that at all times, night and day, the water therein is in constant motion. To provide such a reticulation system and at the same time to lay mains in alleys for the purposes of taking the services therefrom, means practically an increase in the mileage of mains necessary to supply the same number of consumers about thirty-three and one-third per cent. Every mile of main laid represents an investment of a certain amount, the interest on which and the cost of maintenance of which have to be paid, so that the expenses of the department are increased without return in the revenues. At the present time there are in Baltimore about 1,135 dead ends, on many of which blow-offs have been placed in order to flush them out to remove the sediment and filth which collect in them. To flush these blows requires the constant attention of two men at $1.66 a day, representing an annual expenditure of about $1,000, which, at three per cent., is the interest on $33,000. To remove

the existing dead ends or connect them up to give a free circulation of water will cost the city about $35,000, and this work will have to be undertaken, as the complaints of bad water are becoming so frequent from parties served from them that no other means of giving satisfaction is left open.

I would strongly urge upon the board the necessity of passing a regulation adopting a uniform rate of $9 for services, both rear and front, which, I believe, will remove all future cause for complaint in this matter.

CONTRACTORS' PLANT.

I desire to invite the attention of the Board to the improved appliances introduced for the extension of mains, which I believe have resulted in a great saving in the cost and remove a great amount of inconvenience to the public.

The trenching machines used on large lines and manufactured by the Moore Manufacturing Company, of Buffalo, N. Y., a photograph of which I submit herewith, have given great satisfaction. Even if no saving were created by the use of these machines, the mere fact that their use removes the necessity of piling dirt in the street, which would practically blockade all traffic, is ample reward for their purchase. In fact the line under course of construction, which runs from Mount Royal Reservoir to Federal Hill, passes through the very heart of the city, in streets on which the traffic is very much congested, and where in many instances there are double track car lines. If these machines had not been used, the material excavated would have necessarily had to be hauled away some distance and hauled back to the line, or else the streets would have been completely blockaded, making it necessary to stop service on the car lines, and to turn traffic in other directions. Probably some of the members of the Board visited New York City during the construction of the 48-inch main recently laid in Fifth avenue. That thoroughfare was completely blocked by the mains, the trenches and the large pile of excavated material placed in the streets. We have worked on such streets as Columbia avenue between Greene and Warner streets, which is only thirty feet between curbs, and allowed the uninterrupted passage of the street cars and travel. At present we are working on Madison

avenue, where there is a double track cable line. Both tracks are left unobstructed, and the sidewalk remains clear of material. It is readily seen from the photograph herewith that the absence of all material is a great improvement over the old method.

Formerly when connections were made with mains already laid, it was necessary to shut off the water from large areas, in order to make the desired connections. A new and improved device, known as the A. P. Smith Tapping Machine has been introduced, the use of which enables such connections to be made under pressure, without necessitating turning off the water. The value of this service is best understood by an example. It was desired to connect a new 20-inch line with one of the 40-inch leading mains from Lake Clifton. This 40-inch line supplies water to the entire business section of the city, and to have made the connection as formerly would have taken from 12 to 18 hours. No comment need be made upon the great inconvenience which would have resulted to all the factories, warehouses and large office buildings along the water front, and around Baltimore, Calvert and other such thoroughfares, with the water supply interrupted for so long a time. The result in case of a large conflagration occurring while the water was so turned off would be incalculable.

On the same line with the pipe tapping machine, a valve inserting device has been introduced, with the use of which all necessary additional stops are placed in the line of pipes already laid without interruption to the water service.

Numerous other improvements have been introduced, such as new lead furnaces, tool wagons, rubber caulking rolls, etc., all of which tend towards the improvement of the department.

### STANDARD PIPE SECTION.

The old pipe used in the department was found to be lighter than that used for similar service in any city in this country, and the form of the bell and spiggot ends to be of an old design, which had not been used for some years. New standard pipe sections, divided into two classes, A and B, according to weight and the pressure to which they are to be subjected, have been designed.

## METAL COATING ON PIPES.

The old pipes, laid in former years, were placed in the ground without being previously treated with any preservative compound. The corrosion of iron pipes from the effect of water is well known to everyone. Such corrosion arises from the action of water upon the metal, and, as might be expected, is found to proceed more rapidly in pipes in which there is a continuous and rapid flow than in those wherein the water is comparatively stagnant. In pipes that are not protected by a proper preservative coating, corrosion begins at once to affect the entire surface and attacks the metal vigorously, but in well-protected pipes the action may be long deferred. The most minute bare places, however, affording situations for the development of nodules of rust, which, if numerous, gradually burst off the intermediate coating and coalesce. The rust thus formed consists principally of ferric oxide, associated with considerable amount of organic and of siliceous matter. The ferric oxide being produced by the formation of ferous carbonate and its subsequent solution in carbonic acid. Hence it is that soft water, which naturally carries much free carbonic acid, derived from the atmosphere, is peculiarly destructive to pipes and other apparatus made of iron.

As the water in Baltimore is comparatively soft the tuberculation in the mains is very great. This internal corrosion is always a source of some trouble, and if not anticipated at the outset and properly provided against leads to furring of the pipes with the concomitant inconveniences of reduced supply of water and diminished pressure in the mains, and sometimes to the expense of early renewing a large portion of the work.

As the result of the absence of protective coating on our mains, we find in making cuts that the cross sectional area of the pipes is greatly reduced, and therefore their capacity diminished, with the consequent loss of pressure in those districts supplied by these pipes. All pipe now laid is treated with an approved process of metal coating.

## LOCATION AND AMOUNT OF MAINS LAID.

I submit herewith a plat showing the location of mains laid during the past season, and a table showing the number of feet of each size of mains laid.

By reference to Schedule A the cost per foot of the different sized mains, including paving, excavation, refilling, all materials, pipe laying, etc., with the statement of the comparative cost for 1896 and 1897, will be found.

MECHANICAL DIVISION.

*Gay Street Yard and Shops.*—At the Gay street Yard, which is the principal storage yard of the department, much work has been done in straightening, classifying and weighing all materials, and in leveling and grading the yard. In a short time the yard will present a neat and ship-shape appearance, and all materials will be neatly stored in a systematic manner. The shops which were found to be exceedingly dirty have been cleaned out from top to bottom, and all useless rubbish removed.

The machinery in the shops which needed many repairs to put it in working order, has been overhauled extensively. A store-room has been constructed, and all small stores have been removed from various parts of the shop and yard, and placed therein for safe-keeping, and no materials are now disbursed except on the regular form of store-room ticket. The old shanties at the back of the pump-house have been removed, which adds greatly to the appearance of the yard, and the coal trestle, which was in very poor repair, has been overhauled.

The stock at the Gay street yard, which consisted of several old mules, the youngest 24 years of age, has been sold, and replaced by modern heavy draught horses.

The wagons in use at the Gay street yard were completely worn out, and required such constant repairs and attention that they have been sold for scrap, and new wagons have been designed and purchased.

*Eastern Pumping Station.*—The coal used at the Eastern Pumping Station was carried from the trestle at the bottom of the yard to the fire room floor in wheelbarrows. This required the constant services of two men. A new door has been cut in the boiler room large enough to admit of the passage of a cart, and now coal is hauled direct from the trestle to the boilers, dispensing with the services of one man at $1.66 a day.

Engine No. 839 at the beginning of last spring was in very poor working order, giving a duty of only about 66,000,000 foot pounds. The water end was leaking badly and the steam distribution was very poor. In fact the indicator pipe had been removed and the holes plugged up. These plugs have been removed and the engine has been indicated at frequent intervals. A thorough overhauling was given the engine, new plunger rods were ordered, the plungers and plunger rings were returned to reduce amount of slip in the water end, the steam ends have been opened and cleaned, and at present the engine will give a duty of over 100,000,000 foot pounds. From June until September, during the installation of Engine 1207, No. 839 was the sole dependence of the department, and during that period she pumped daily about 12,000,000 gallons of water, although rated as a 10,000,000 engine.

*New Electric Light Plant.*—The gas bills for the Eastern Pumping Station and the shop were found to amount to nearly $1,200 a year; therefore an electric light plant has been installed at the cost of $2,200. The estimated annual cost of maintenance of this plant, which is very liberal, is $700 a year. No additional help is required, as the plant is situated on the engine room floor in the pump house, and is taken care of by the force in charge of the pumps, and steam is obtained from the same boilers which supply the pumping engines. Formerly the light in the shops and the engine room was exceedingly poor, and there was no light at all in the yard, which made it difficult to obtain supplies at night in cases of emergency. At present the pump-house, shops and yard are all brilliantly lighted at a reduced cost.

*Traveling Crane at Gay Street Yard.*—The side track from the main line of the Pennsylvania Railroad, which enters the Gay street yard, is on a trestle at an elevation of 30 feet above the ground. As a result, all materials, such as lead, special castings, valves, hemp packing, etc., which come to us by rail, have to be delivered at other terminals and hauled to the Gay street yard. The side track is only useful for the purposes of receiving coal and sand. The cost of this hauling for the year 1896 was between $2,000 and $3,000. To save this unnecessary expense a traveling crane has been designed, which is to be operated by an electric motor to be

supplied with current by the generator in the pumping station, which is not in use in the day time. This crane is so designed as to serve to unload all weights up to four tons and lower the materials to the yard, and at the same time to shift the cars on the siding as may be desired.

*Engine No. 1207.*—During the year the old 5,000,000 engine, No. 595, at the Eastern Pumping Station has been removed, the foundations torn down, new foundations built for No. 1207, and the new engine has been installed and was officially tested on January 7 last. The engine met all the necessary requirements of the guarantee. A copy of the test is submitted herewith:

OFFICIAL TEST OF ENGINE No. 1207, EASTERN PUMPING STATION, JANUARY 7, 1898.

| | | | |
|---|---|---|---|
| Size of engine | | 19—30—54 x 26 x 36 | inches. |
| Diameter of plunger rod | | 4 | inches. |
| Plunger area: | | | |
| Forward stroke | 3.689 sq. ft. | | |
| Return stroke | 3.599 sq. ft. | | |
| Average | | 3.655 | sq. ft. |
| Length of test | | 10 | hours. |
| Average steam pressure | | 126.37 | lbs. |
| Average water pressure (force main) | | 113.902 | lbs. |
| Average water pressure (suction main) | | 32.268 | lbs. |
| Elevation force main gauge above suction | 8 ft. 10¾ ins. = | 3.86 | lbs. |
| Total pressure on plungers | | 85.444 | lbs. |
| Total head on plungers | | 192.61 | feet. |
| Total number of displacements | Counts x 4 = | 51,052 | |
| Average displacements per minute | | 85.0866 | |
| Average length of stroke, No. 1 side | | 37.515 | inches. |
| Average length of stroke, No. 2 side | | 37.492 | inches. |
| Average length of stroke, both sides | | 37.503 | inches. |
| Piston speed per minute | | 132.948 | feet. |
| Cubic feet of water pumped during test | | 581,354.65 | |
| Gallons of water pumped during test | | 4,348,823.46 | |
| Steam used: | | | |
| Air pump discharge | 43,104 lbs. | | |
| Jackets | 9,724.5 lbs. | | |
| Air compressor | 173 lbs. | | |
| Total | | 53,001.5 | lbs. |
| Duty in foot pounds | | 135,017,400 | |
| Rate of pumping per 24 hours, in gallons | | 10,437,175.2 | |

*Air Chambers.*—There has always been great trouble from water-hammer in the suction main leading from Lake Clifton to the Eastern Pumping Station. In fact, this trouble has been so great at times as to become most dangerous and to seriously endanger the suction line. Air chambers have been placed on each of the suction mains leading to the pump, with the result that all signs of water-hammer have been removed and the operation of the pumps has been made much more quiet.

*Cost of Pumping.*—Although a large amount of necessary repairs were made in 1897, it is seen from Appendix N that the cost of pumping in 1897 was $4.51 per million gallons, as compared with $5.25 for 1896. It is seen that although nearly 300,000,000 gallons more were pumped in 1897 than in 1896 the expenses of the Eastern Pumping Station were nearly $2,000 less. A close analysis of Appendix N will be found interesting.

## COUNTY DIVISION.

*Dredging Loch Raven.*—In 1896 a contract was let to Harbor Inland and Improvement Company, for the removal of deposit from Loch Raven. Under their contract they removed during the summer of 1896 over 300,000 cubic yards of material from the lake, at 22½ cents a cubic yard. In order to do this work the dredging company built at Loch Raven a very modern and efficient plant for the removal of the material which was pumped over the breast of the dam and delivered to the stream below. The purchase of this plant I recommended at a cost of $17,000, which recommendation was approved by the Board, and the plant was purchased. During the summer of 1897, 80,831 cubic yards of material were removed from Loch Raven, at a cost of 5.2 cents per cubic yard. It will be seen from the difference in cost to the city that the plant has nearly paid for itself during the season's dredging. The cost of dredging by the city as given above includes all repairs, the housing of the plant, and everything which was necessary by reason of the existence of the dredging machine.

I would strongly recommend that this dredging be continued from season to season, as the storage capacity of the reservoir is so diminished as to practically render it unuseful for the purposes of

storage. The storage capacity of our reservoirs will be a very important factor a few years hence, and may delay for several years the necessity of seeking an additional supply, and the most economical means of accomplishing this is by keeping the present reservoirs clean and maintain their maximum storage capacity.

*Suits in the County Division.*—At the present time the Water Board is between the devil and the deep sea. In a recent decision of the Court of Appeals the decision of the Circuit Court of Harford County was sustained, giving a verdict of $2,500 damages to Mrs. Henry C. Merryman; the alleged damage being caused by the overflow of the property of the said Mrs. Merryman in times of high water, due to the presence of the Lock Raven dam. Although ample testimony was presented on the part of the city to show that for many years previous to the building of this dam the Gunpowder valley was subject to frequent inundations, the jury at Belair rendered a verdict, and by reason of the introduction on the part of the plaintiff of testimony which certainly may not be considered in the line of expert testimony, to the effect that the cause of the recent overflows was entirely due to the presence of the deposits which now exists in Lock Raven, the court holds that the presence of these deposits constitutes negligence on the part of the city which holds the municipal corporation responsible for the results of the elements.

In addition to the Merryman suit others have been filed by property-owners adjacent to the head-waters of Loch Raven, including those of Lee, Dymond and Jessop.

Since the inauguration of the dredging at Lock Raven, several suits have been entered by reason of the delivery of the deposits to the stream below the dam, the plaintiffs claim that such material is a menace to the property below the dam. The court having already decided that the city was derelict in its duty to allow the deposits to accumulate in the dam, we are now face to face with the suits for damage by reason of removing the deposit and discharging the same into the stream below.

What the courts will find in the damage suits entered by the property holders below the dam it is difficult to state, but certainly

the condition at Loch Raven which confronts the Board at the present time is one which needs mature and deliberate consideration.

The finding of the court in the case of the Merryman suit is incomprehensible to me, and certainly these deposits which would naturally be carried down stream if not obstructed by the presence of the dam, should not form the basis of any suit of the property holders below.

Evidence was produced in the Merryman case to show that floods of equal magnitude with those in recent years existed as far back as 1867, and theoretically the capacity of the stream as now built and widened by reason of the existence of the reservoir, should be much greater than before the dam was built.

It will be necessary so long as Loch Raven is maintained as a source of supply, for the city to continue dredging, in order to maintain the storage capacity of the reservoir. If the city is to be enjoined from the delivery of this material to the stream below, and is, at the same time, to be liable for damage if these deposits are not removed, the only recourse is for the city to purchase property below the dam, and deposit thereon the excavated material. It is extremely doubtful whether this is within the bounds of practicability, as it would require but a short time to fill large areas to a depth which would be prohibitory. By the present method of delivering the material in the stream, each flood subsequent to the dredging washes all the material away, and carries it to tide-water. I hardly feel justified in making any recommendations to the Board in this regard until the Gilmor suit is settled.

*Dredging at Lake Roland.*—Lake Roland is rapidly filling up, and for this reason the Water Board in the early part of 1897, decided to dredge that reservoir. Specifications for the work were prepared, and proposals invited. Three bids were received, and the contract was awarded to the lowest bidder, the Baltimore Dredging Company. The process proposed in the specifications was to remove the materials from the bottom of the lake to property owned by the city adjacent to the reservoir. A few days subsequent to the award of the contract an injunction was filed by Charles M. Ellicott, restraining the city from dredging. This suit has not yet had a hearing.

Subsequent developments show that Mr. Charles M. Ellicott was interested financially in the bid of Jones, Pollard & Co., the next highest bidders, and propositions have been made by his lawyers to the effect that a settlement could be reached if the Water Board would allow Jones, Pollard & Co., and the Baltimore Dredging Co. to combine and undertake the contract for dredging Lake Roland at the price submitted by Jones, Pollard & Co. Despite the willingness of Mr. Ellicott to settle on these terms, he claims as his reason for instituting his suit against the city that Jones, Pollard & Co. proposed instead of placing the material on the city property to pump it over the dam and place it on the land of James Buchanan, situated below the dam. If there is any objection on the ground of unhealthfulness to the presence of the deposit on the lands adjacent to the reservoir, the same will maintain in the case of the presence of the deposit on the land below the dam, and therefore, if Mr. Ellicott proves that this material is deleterious to the health of property owners adjacent to the land about the lake, the city will be subjected to the same class of suits if the material is placed below the dam.

The material in the lake has precisely the same composition as the top soil on the land adjacent to the lake, and is nothing more nor less than the wash from such land in time of heavy rain.

Nothing can be done in the matter of dredging Lake Roland until the settlement of this suit.

The dredging problem in our impounding reservoirs is a very serious one, and I fear that the courts do not grasp the broad problem involved. In granting the city the right to dam any stream for the purpose of impounding therein a water supply, it necessarily follows that the right must be given it to dispose of the material therein deposited, for by the very nature of the reservoirs the deposition of such material is a necessity. A potable supply of water is necessarily clear, and the very idea of constructing such reservoirs as Loch Raven and Lake Roland is, as is shown by their very name, impounding reservoirs, to impound all the solid matter carried down streams in times of heavy rain, and there to deposit it in order that this material may not be delivered to the city. If, therefore, the courts on the bare hypothesis that this

material is contaminated, without any sufficient proof, maintain in the face of the best evidence that this material is simply alluvial wash of the drainage basin of these streams that the city has to buy large tracts of land in order to remove this material, the cost of the water supply of Baltimore will in time become so great as to make the use of water almost prohibitory. This condition cannot exist, and the Legislature in giving the right to the city to build impounding reservoirs must necessarily at the same time give to the city the right to carry on such necessary operations as are requisite for the operation and proper maintenance of these reservoirs. To hold otherwise is to deny half of the inhabitants of the State of Maryland the free and untrammeled use of the most necessary commodity of health, cleanliness and manufacturing purposes, water.

*Fertilizer for Slopes.*—During the year all the slopes on the various reservoirs have been treated with fertilizer at a cost of $1,425.20. The result of this treatment is shown by the present condition of the slopes, which is greatly improved.

*Roads and Driveways.*—The roads and driveways about the reservoirs have been extensively improved this year, and to maintain these driveways in proper condition a road machine has been purchased. This machine has been found to save an enormous amount of labor in the care of the roads, and at the same time to maintain them in better order than formerly.

*Inspection of Gunpowder Conduit.*—Numerous reports have been afloat during the past year to the effect that the conduit between Loch Raven and Lake Montebello was seriously obstructed by reason of deposits therein. During the past summer an inspection trip was made through this conduit from Loch Raven to Lake Montebello by Mr. William Benthall, Superintendent of the County Division, and the conduit was found to be unobstructed and in excellent physical condition.

*Blow-Offs on Pipe Lines Connecting Hampden and Druid Lake.*—The water from Jones' Falls is delivered from Lake Roland to Hampden Reservoir by a brick conduit, and from thence to Druid Lake by means of four 40-inch cast-iron pipes. These pipes connecting Hampden and Druid Lake, which are at

the same elevation, pass under the Jones' Falls at a point opposite the Mt. Vernon shops of the Northern Central Railroad. There were no blow-offs placed in these pipes, and owing to the great difference in elevation between Druid Lake and the bed of Jones' Falls, the pipes under the bed of Jones' Falls have become very much obstructed by the deposit of sediment, with the result that the flow of water from Hampden to Druid Lake is very much retarded. Plans have been prepared for the insertion of blow-offs at the lowest point on these pipe lines, and the work has already been commenced.

*Generally.*—The condition of the reservoirs, and of the other property of the Water Board in the County Division, is in very excellent shape. The property of the city along the Jones' Falls conduit has been surveyed during the year and boundary stones placed to mark the city property. This was made necessary by reason of the fact that numerous encroachments had been made on the city property along the line of the conduit. All pipe lines belonging to the city in Druid Hill Park have also been located, and stones placed to mark the location of the same.

## SUPPLEMENTARY WATER MAINS FOR FIRE PROTECTION.

One of the most serious and important adjuncts to a municipal government is the Fire Department; the cost of the maintenance of which forms a large proportion of the total annual expense of any city government. Any step, therefore, which tends towards increasing the efficiency of such department, and rendering more efficacious the plant of such department is a step in the right direction. Recently there has been developed in some of the western cities a system of laying supplementary mains through which water from adjoining rivers or harbors is forced for fire protection, thus making use of the machinery on fire-boats for distances, in some instances, of a mile from the water front. This matter was first brought to my attention by Chief McAfee, of the Fire Department, and the feasibility of laying mains for this purpose and utilizing the large capacity of the fire-boat for supplying water to these mains, thereby increasing the efficiency of the department, without the

introduction of new fire companies, caused me to investigate the matter with a view of determining the practicability of such a plan in Baltimore.

In connection with this question, I beg herewith to submit as pertinent to the question, a most interesting paper by Mr. Foster Crowell, member of the American Society of Civil Engineers, who has been investigating this subject for the Fire Department of New York City. The extracts given below are taken from Volume 37, No. 6, of the "Engineering Record:"

"Such pipe lines are already in use in Cleveland, Milwaukee, Detroit and Buffalo, and are now being introduced in Boston. They form distinct underground systems, and are primarily for the purpose of utilizing the available power of the fire-boats in extinguishing fires at points too remote from the water front to be advantageously reached by lines of hose. I visited in turn all the cities named, and secured, through the kindness and courtesy of the city officials, the very full information and data concerning the character, dimensions, efficiency and cost of the pipe lines upon which this report is based. At Cleveland, Milwaukee, Detroit and Buffalo actual tests were made to exhibit the practical working of the system, and at Boston, where the laying of the pipes was not completed, full opportunities were afforded to examine the details of the work.

"*Cleveland, Ohio.*—Fire-pipe lines were first introduced in Cleveland in 1888. In that year an ordinary six-inch cast-iron pipe was laid from the river bank to the top of the adjoining bluff, a distance of seven or eight hundred feet only, and without any idea of extending the system. But its advantages became so marked that in 1891 extensions were begun, and have continued until, at the present time, there are four lines in service, comprising a total length of 1.5 miles, the longest distance covered by one line being about 2,400 feet. There are provisions for further extensions. Eight-inch pipes were used on all the newer work, but the original six-inch pipes are still in service, and, as a necessary consequence, large frictional losses occur; but, notwithstanding that drawback, the advantages obtained are very great. The test that we saw made was on that part of the system, and was as follows:

Three lines of three-and-a-half-inch hose from the fire-boat *Clevelander* were connected to the six-inch fire pipe, which contained no water at the time, and at a hydrant 1,800 feet distant connection was established between the pipe line and a water-tower apparatus, which latter was extended to a height of sixty-five feet; the elevation of the hydrant above the level of the river was eighty feet, making the total height to the nozzle 145 feet. The fire-boat possesses four pumps, with a combined capacity of 6,000 gallons per minute, all of which were used. After the pumps were started fifty-five seconds were consumed in filling the pipe. Two two-inch fire streams were thrown from the water tower, with 140 pounds steam pressure and 260 pounds water pressure in the pump, the gauge at the water tower indicated a pressure of sixty-five pounds. A second test was made with two lines of hose from a hydrant, throwing one two-inch stream and one-inch and three-quarter stream. Communication is had with the fire-boat by means of overhead telegraph wires. There are two fire-boats in constant service.

"*Milwaukee, Wis.*—Milwaukee introduced the first fire-pipe line in 1889. It now has some twenty-four separate lines, with a total length of about seven miles. The first installations were with six-inch pipe, but this has since been relaid with eight-inch and ten-inch. The present rule is to proportion each line to its special service, ten-inch being the maximum. Many of the lines are planned for future extension, and it may be said that this system is destined to be the chief dependence of the city.

"On account of the low temperature at the time of our visit it was not deemed desirable to exhibit the workings of the system in the heart of the city, but a very satisfactory test was made on a line 3,000 feet long, consisting of ten-inch and eight-inch pipes, in the south end, from which two powerful streams, one two inches and one one-and-a-half inches were thrown. We were shown photographs of other tests; one being on a ten-inch line 3,158 feet long where a two-and-a-half-inch stream was thrown over the Statue of Liberty on the court-house, the height of which is 198 feet above the hydrant, and 255½ feet above the river level; in

another, six one and one-half-inch streams were thrown over buildings 150 feet high. There are three fire-boats in service, the capacity of each being 6,000 gallons.

"*Detroit, Michigan.*—Detroit has fourteen complete fire-pipe lines, eight inch and ten inch, with an aggregate length of nearly five miles, most of which are on parallel streets, running at right angles to the Detroit River. At present they are served by one fire-boat, the *Detroiter* with a capacity of 6,000 gallons per minute when working at maximum pressure, but it is now proposed to connect the nine principal lines by means of a twelve-inch main, parallel and near to the river, connected with a permanent pumping station of 5,000 gallons capacity, operated with steam from the public electric lighting plant. This will relieve the fire-boat, and practically double the pipe line efficiency as well as saving time in getting the fire stream started. It is intended to run fully equipped hose companies in connection with the pump service, and as soon as they can connect the hose to a pipe line hydrant they can begin playing on the fire. This can be done at any point along the pipe line, and as many streams as are needed can be used. The importance of the saving of the first few minutes at the breaking out of the fire thus accomplished need not be enlarged upon.

"The working of the present Detroit system was demonstrated to us by a very satisfactory series of tests on the Shelby-street line, which consists of an eight-inch steel pipe 2,250 feet long. The *Detroiter* was connected with the main by five lines of three-and-one-half-inch hose. The first test was made opposite the new postoffice, near the corner of Shelby and Lafayette streets, with two one-and-three-quarter-inch streams ; the water pressure at pump was 200 pounds, and 90 pounds back of the nozzle. The second test was made with three lines of three-and-one-half-inch hose from the hydrant siamezed into one one-and-three-quarter-inch nozzle. This made a magnificent and very powerful stream, the gauge back of the point of junction indicating 180 pounds. The third test, a two-inch nozzle was substituted, the gauge pressure being 180 pounds as before. In the fourth test a two-and-one-quarter-inch nozzle was used with a

gauge pressure of 150 pounds, and the fifth a two and-a-half-inch nozzle with pressure of 143 pounds

"A record of previous tests made on another of the Detroit lines, 4,800 feet in length, is as follows: (*a.*) Three one-and-a-half-inch streams to 100 feet of three-inch hose each were thrown a distance of 225 feet. (*b.*) Two one-and-three-quarter-inch streams through the same length of three-inch hose were thrown 250 feet. (*c.*) Two two-inch streams with the same hose were thrown 325 feet.

"The Detroit pipe lines and their appurtenances have been designed with great care and skill. The Shelby street line is typical, and may be advantageously described here in detail. Steel pipe, such as used by the Standard Oil Company in pumping oil to the seaboards, was selected. It is eight inches in diameter, 28 pounds to the foot, lap welded, with screw couplings. It is dipped in asphaltum and tested to 1,000 pounds. It is laid on a straight grade, the rise being but nineteen feet in two thousand feet, the result being shown in a very high efficiency, as indicated by the low frictional losses mentioned in the account of the tests. The slope is towards the river, and is just enough to permit the draining of the pipe by gravity as soon as the pressure is removed. The hydrants have a six-inch stand pipe, with two three-inch hose outlets and one four-inch outlet. Brick manholes are built opposite each hydrant, and the wire is run alongside the pipe to establish telephone connection between each hydrant and the boat. In the manholes at the end of the pipes are relief valves to guard against excessive pressure, with proper sewer connections to carry off any escaping water from the relief valves. There is a blow-off manhole at the lowest point of the pipe, also connected with the sewer, and by means of a four inch gate valve the pipe can be emptied into the sewer. At the end of each line there is an automatic air-escape valve, and there is a gate and a manhole at each hydrant by which the latter can be cut out.

"*Buffalo, N. Y.*—Buffalo has only recently introduced the fire-pipe system, and only one line has been constructed; but that one is notable for its great length, larger diameter and completer equipment than any other now in service. This line extends along

Washington street, one block from Main street, from the river to Chippewa street, a distance of 6,200 feet, its highest point being about fifty feet above the river level. It is of wrought iron, twelve inches in diameter, weighing fifty pounds per foot, with screw joints. The pipe sections are tested to 1,000 pounds per square inch, and the line, after laying, to three hundred pounds per square inch. There are twenty-six special hydrants each with four, three and one-half inch openings. The hydrant branches and standing pipes are eight inches. Opposite each hydrant is a manhole, with a cover in two parts, a central one of small diameter, through which the turnkey of the valves can be operated, and an annular one of larger diameter, which need only be removed when it is necessary to enter the manholes. The valves are three-way, so constructed that any hydrant can be cut and the line left open, or the line can be shut off at that point. Every hydrant has an automatic air escape. In the practical working of this line it is proposed to allow it to remain full of water during eight months of the year. Adequate drainage into the sewer is provided by means of two-way valves. Connection with the fire-boat is made by means of two short branches, which unite a short distance up the line. Each branch terminates in a cylindrical chamber, with seven openings for three-and-a-half inch hose. A special coupling, which can be instantaneously made or broken by a quarter turn of a spanner, without the use of a screw thread, is used. There are two fire-boats of a combined capacity of 10,000 gallons per minute. With both working together, the entirely empty line can be filled ready for fire stream in three minutes and forty seconds. It is proposed to put in a main along the water front, and to adhere in all extensions to the diameter already adopted—twelve inches.

"Electric communication with the fire-boat is provided near each hydrant by means of an independent signal box on an iron pillar, connecting with double wiring laid in a two-inch iron pipe in the pipe line trench, leading to the river, where a tube leads to the apparatus in the engine room of the boat. By means of a key and bell at each end constant reciprocal communication can be maintained between the two ends.

"The Buffalo officials compute that their pipe line, complete,

with all the appurtenances as above described, has cost about $3.50 per linear foot, or about $22,000 for the line.

"*Boston, Mass.*—The lines heretofore described, all being for fresh water service, failed to furnish one important element of information needed for New York's guidance, namely, the effect of salt water upon the structures. Boston is now introducing a salt water line, which is an instructive example, but as it is not yet in service no experience in this respect has been gained on this particular point. Observation in other fields, however, as to the effect of salt water upon metal is not lacking, and, in the light of experience with cast-iron water pipe that has for many years conveyed a fresh water supply under salt water, that material has been adopted for the fire pipe, with solid composition metal valves, gates and fittings, with pure rubber inner joints. The diameter of the pipe is twelve inches, and the metal is one inch thick. The bells and spigots are extra heavy, and cast with two caulking jogs, as an additional precaution against leakage. Forty pounds of lead are used for each joint. The pipe is coated at the foundry, inside and out, with what is known as the 'standard' coating. The line is tested for 400 pounds per square inch.

"I visited the part of the line that was under construction at the time of our visit, and examined all the details, including the hydrant, gate and valves. The line is about 3,900 feet long, with both ends at the water side. Starting at the Congress street bridge over Fort Point Channel, it extends up Congress street about 2,300 feet, through Postoffice Square to Exchange place, where it makes a right angle turn and goes through Exchange Place and Central street to the harbor at Central Wharf. About midway on each leg cross connections are laid for proposed future extension and a third branch is at Milk streeet, the additional length of the proposed extensions being about two miles, with one or more additional water side connections.

"Each end of the present line is to have two fire-boat connections so that both boats, each with 3,000 gallons capacity per minute, can connect at either end, or one at each end, as may be most convenient or expedient. Each connection has six three-and-one-half inch butts. There are eleven post hydrants on the line,

each having three three inch outlets with independent valves. Each hydrant may be gated off from the line. There is a check valve for each, and an air escape valve about 450 feet away. By means of a tank on the roof of the Postoffice building, which is supplied from the fresh water system, the hydrants can be flushed out whenever the pipe-line pressure is taken off, but it is not intended to flush the pipe itself under ordinary circumstances. Being below tide level, it normally will remain filled with salt water continuously.

"In the pipe trench, above the pipe, is a four inch duct, through which the electric system communicates between the fire-boats and each hydrant, the signal box being contained in a small compartment designed to receive it at the back of the hydrant casing. All the gates and mechanism of the hydrant are of composition metal. Where cross connections occur special strength in the joints is secured by means of straps and tie rods.

"The officials estimate that the 4,000 feet under construction will cost at the rate of six dollars per foot, including all material, fittings and labor, or $24,000."

I beg herewith to submit an estimate of the cost of laying pipe lines from the water front in this city, to cover the principal business and manufacturing districts, and a statement showing that the introduction of such a system would effect a saving in the annual expenses of the Fire Department, while at the same time giving a more efficient fire protection. With this system in operation about five of the present engine companies in the business section of the city could be replaced by hose companies, thereby effecting a saving in operating expenses at those stations, and the old apparatus could be used in equipping new engine stations in outlying districts.

| | |
|---|---|
| Cost of pipe lines | $141,000 |
| Equipment of five hose companies | 15,000 |
| Telegraph and telephone equipment | 12,000 |
| Total cost | $168,000 |
| Amount saved on equipment of five new engine companies | 75,000 |
| Net cost | $93,000 |

| | |
|---|---|
| Interest on total cost at 3 per cent | $5,040 |
| Cost of maintenance of pipe lines | 4,330 |
| Total annual charges | $9,270 |
| Saving in operating expenses by replacing five engine companies with five hose companies | 11,700 |
| Net saving per annum | $2,430 |

In Cleveland and Detroit similar systems have been put in by the fire departments, and at their expense; in Milwaukee the plans were made by the city engineer and the work was done by the fire department, and in Boston the entire system was put in under the direction of the city engineer for the fire commissioners. In these cities the system is considered to be a part of the plant of the fire department to be operated and maintained by that department. I believe that the expense of such a system for this city should not be borne by the Water Department, but should be met by an appropriation by the City Council in the same manner as the regular expenses of the Fire Department are now provided for. I mention the matter at this time because it is an important question affecting to a considerable extent the probable future outlay to be required of the Water Department to keep up an effective water supply, and because it is worthy of serious consideration by the city authorities.

Concluding this report I beg to call the attention of the honorable members of the Board to the untiring and efficient energy of the chiefs of the various divisions of the Engineer's Department during the past year.

Mr. Quick, the Assistant Engineer, has rendered invaluable services, and has relieved me of an enormous amount of work, thereby enabling me to devote my time more especially to the general questions of the reorganization and administration of the department, thereby enabling me to produce the satisfactory results achieved during the past year.

Mr. Truelove, Superintendent of Construction, has shown his ability in handling men and an intimate knowledge of the best methods of pipe-laying, and has worked night and day during the past year to keep ahead of the onerous duties of his position.

Mr. Rost, Superintendent of the Mechanical Division, has produced great improvements at the Gay Street Yard and Pumping Station, and has effected many savings in the expenses of his division, and has been untiring in his zeal for the welfare of the department.

Mr. Benthall, Superintendent of the County Division, although not called upon to devote the same time to his work, owing to the fact that no extensive improvements were being made in the County Division, has demonstrated his ability and fitness to handle this division and his thorough integrity and willingness to undertake any work placed under his care.

Mr. Huppman, formerly chief clerk, has worked with a zeal that is to be commended.

In fact, I wish to take this means of recommending to the Board the various employes of the department, and to express my thanks to them for their courtesy, hard work and willing response to any request which I have made of them.

Respectfully submitted.

NICHOLAS S. HILL, Jr.

# Report of the Engineering Division for the Year 1897.

*Nicholas S. Hill, Jr., Chief Engineer:*

During the year 1897 this division has been engaged in—

1. Designing standard pipe sections, standard pipe fittings and special castings for pipe laying.

2. Standardizing drawings and systematizing records of drawings.

3. Designing drawing desks, plan cases, filing cases and register boards.

4. Laying out lines of large mains required for better circulation.

5. Estimating quantity of pipe, special castings and valves required for laying mains.

6. Keeping a record of all straight pipe made for the department; of the amount of straight pipe, special castings and valves ordered and shipped; of the shipment, receipt, transfer and unloading of all car-loads of such material, and of the receipts and disbursements of large special castings at storage yards.

7. Designing pipe-testing machine, special parts for trenching machines, derrick for laying 6-inch to 20-inch pipe, tool wagons, heavy truck, traveling crane for Gay street yard trestle, lead furnaces and pots, rubber caulking roll, special connections and crossings on large pipe lines, electric lighting plant for Gay street yard, meter testing machine and fittings, meter strainers, vaults for large valves, gate vault domes, frames and covers, special sleeves and branches for cutting in, floor stands for valves at Mt. Royal Pumping Station, screens for gate houses, air chambers, branches and bends for Eastern Pumping Station, shed for Gay street yard new service stop, etc.

8. Making drawings for alterations in boiler-house wall at Eastern Pumping Station, foundations for new pump at Eastern Pumping Station, settings for new boilers at Western Pumping Station, changes in steam and feed piping at Eastern Pumping Station.

9. Designing steel standpipe and tower for West Arlington.

10. Engineering work, digging test wells on lines of large mains and at Mt. Royal Pumping Station lot, surveying and taking levels at Mt. Royal Pumping Station lot, surveying flooded property at head of Loch Raven, cross-sectioning property below Loch Raven dam, taking levels on city property at Lake Roland and soundings over bottom of lake, surveying and setting bounds on city property on lines of Jones' Falls conduit, staking out West Arlington force-main line.

11. Designing six forms for orders and reports on the transfer, unloading and hauling of all materials; eleven forms for daily reports on work done by the Construction Division, two forms for report of changes to meters, three forms for report of meter tests, four forms for monthly report of divisions, twenty forms for yearly statements of the department; also forms for foremen's emergency orders, shop orders, shop-order reports, report of inspection of plumbing connections, material slips, inter-division material orders, requisition books, receipt books, etc.

12. Designing sixteen account books, journals and stock books, time book and day book for drawings, meter account and route books.

13. Listing, numbering and routing all fire dydrants.

14. Listing, numbering, routing and districting all meters; making sketches, showing location of 1,600 meters, reading 1,600 meters for each quarter of the year, rereading 100 meters for disputed bills, testing 10 indicators for disputed bills, testing 10 meters for disputed bills, and testing 20 meters for regular insertion; also entering up meter accounts.

15. Investigating and reporting on 11 complaints of low pressure and slack supply, investigating reported illegal connections and supplies, inspecting all plumbing connections made since May 1, inspecting and reporting to Water Registrar as to houses on private pipes.

16. Locating all new services and meter supplies put in since February 19, 1897; locating all stops, branches and connections inserted on pipe lines from June 1 to December 31; keeping record of the status of all service applications.

17. Plotting on maps all mains laid in 1897, making plans for extension of high and middle-service area, working up comparative statement of cost of mains laid in 1896 and 1897, writing specifications, working up tables showing quality and quantity of all materials required for 1898.

18. Resume of work done:

338 Plans made for extension of mains.
16 " " erection of fire hydrants.
19 " " main connections.
178 Miscellaneous plans made.
54 Blank forms designed.
20 Books designed.
1,600 Sketches made showing location of old meters.
61 New meters located.
3,080 New service supplies located.
297 Plumbing connections inspected.
904 Branches located on new mains laid.
1,149 Valves " " "
754 Connections " " "
6,600 Meters and indicator readings taken.
30 Meters tested.
10 Indicators tested.

Respectfully submitted.

A. M. QUICK, *Assistant Engineer.*

# Report of Superintendent of Construction.

BALTIMORE, January 1, 1898.

*Mr. N. S. Hill, Jr., Chief Engineer:*

DEAR SIR: I hereby respectfully submit to you the annual report of work done by the Construction Division from January 1, 1897, to December 31, 1897.

Respectfully,

GEORGE R. TRUELOVE, *Acting Supt.*

## COMPLETED LINES BY BLUE PRINTS, 1897.

| Print No. | Location. | Remarks. |
|---|---|---|
| 00011 | Alley E. of Fulton ave. S. of Clifton st.... | Main, 6-inch. |
| 13 | Johnson and Moale sts..... | " 6 " |
| 15 | Fayette and Temple sts ..... | " 3-inch & 8-inch |
| 16 | Mary st. and Mary's Terrace..... | " 6-inch. |
| 17 | Alley S. of Townsend E. of Hopkins ave. | " 6 " |
| 18 | Cheston south of Clifton ave..... | " 6 " |
| 22 | St. Paul st., bet. North ave. and 25th st.. | " 12 " |
| 23 | Preston st.,bet. Homewood av. & Ensor st. | " 12 " |
| 24 | Potomac north of Dillon st ..... | " 10 " |
| 25 | Elm north of 4th ave ..... | " 6 " |
| 26 | Market Space and Water st..... | Plug. |
| 27 | Alley E. of Fulton ave N. of Presbury st.. | Main, 6-inch. |
| 28 | Gilmor, bet. Saratoga and Lexington sts.. | " 6 " |
| 29 | Pratt and Stricker sts..... | " 6-inch & 8-inch |
| 30 | Ostend west of Ridgely st..... | " 6 " " 3 " |
| 33 | Hopkins ave. north of Monument st..... | " 10 " |
| 34 | North ave., bet. Maryland ave. & Charles st | " 6 " |
| 35 | Huntingdon ave., bet. 29th and 30th sts.. | " 6 " |
| 37 | Clifton ave. and 8th st..... | " 6 " |
| 38 | Baker, between Bruce and Vincent sts.... | " 6 " |
| 42 | York road south of Colvin ave..... | " 6 " |
| 43 | York road north of Tinges lane..... | " 6 " |
| 45 | Ashland ave., bet. Broadway and Chester. | " 10 " |
| 47 | Fayette, between Aisquith and Bond sts.. | " 10 " |
| 50 | Calhoun, bet. Lexington st. & Harlem ave. | " 12 " |
| 51 | North Avenue Bridge, west end ..... | Connection. |
| 52 | North Avenue Bridge, east end..... | " |
| 53 | Montford ave., bet. Gay and Townsend sts. | Main, 6-inch. |
| 54 | Adams alley west of Maryland ave..... | " 4 " |
| 55 | Alley north of Potter east of Elm ave.... | " 6 " |
| 56 | Covington and Wells sts..... | " 10 " |
| 57 | Cedar ave. south of 3d ave..... | " 6 " |
| 58 | Alley north of Chase st. west of Broadway. | " 4 " |
| 59 | Oakland ave. and York road..... | " 6 " |
| 63 | Lawn ave. west of Oak st..... | " 4 " |
| 64 | Barre, bet. Eutaw st. and Fremont ave... | " 6 " |
| 65 | Ridgely, bet. Fremont ave. and West st.. | " 10 " |
| 66 | Hamburg, bet. Fremont ave. and Scott st. | " 10 " |
| 67 | Robinson, Canton sts. and Foster ave..... | " 6 " |
| 68 | Beason, between Andre and Hull sts..... | " 10 " |
| 69 | Scott, between Cross and Ramsay sts..... | " 10 " |
| 70 | Aliceanna,bet. Broadway & Washington st | " 10 " |
| 71 | Jefferson, bet. Broadway and Aisquith st. | " 10 " |
| 72 | Lexington, bet. Front st. and Central ave. | " 10 " |
| 73 | Broadway and Thames st. (east)..... | " 10 " |
| 74 | Caroline, between Pratt and Bank sts.... | " 10 " |
| 75 | Forrest, bet. Lexington and Monument sts. | " 10 " |
| 76 | Broadway and Thames st. (west)..... | " 10 " |
| 77 | Aliceanna, bet. Caroline st. and Broadway. | " 8 " |

COMPLETED LINES BY BLUE PRINTS, 1897.—Continued.

| Print No. | Location. | Remarks. | |
|---|---|---|---|
| 00080 | Bond and Federal sts. | Main, | 20-inch. |
| 81 | Preston and Bond sts. | Connections, | 12 " |
| 82 | Eutaw, between Lexington and Mulberry. | Main, | 12 " |
| 84 | Boston, bet. Potomac st. & Harford Run. | " | 10 " |
| 85 | McCulloh and North ave. | " | 12 " |
| 86 | Lee, between Howard and Charles sts. | " | 10 " |
| 88 | Chester, bet. Federal and Chase sts. | " | 20 " |
| 89 | Woodberry and Parkdale aves. | " | 6 " |
| 90 | Chestnut and Singer aves. | " | 6 " |
| 91 | Myrtle ave., bet. Dolphin & Greenwillow. | " | 10 " |
| 92 | Preston, bet. Linden and Penna. aves. | " | 10 " |
| 93 | Greenwillow and Union sts. | " | 10 " |
| 95 | Druid Hill ave., bet. Dolphin & Preston. | " | 10 " |
| 96 | Preston, bet. Druid Hill av. & Linden av. | " | 10 " |
| 97 | Lanvale, bet. Linden and Mt. Royal aves. | " | 10 " |
| 100 | Chase, bet. Chester and Wolfe sts. | " | 20 " |
| 102 | Union Dock and Eastern ave. | " | 6 " |
| 103 | Division, bet. Mosher and Dolphin sts. | " | 10 " |
| 104 | Fairmount ave., bet. Luzerne and Glover. | " | 6 " |
| 106 | Mosher st., East and Third sts. | " | 6 " |
| 107 | Barnes and McDonogh sts. | " | 6 " |
| 109 | Wolfe, bet. Gay and Chase. | " | 6 " |
| 110 | Baltimore, east of Broadway. | " | 10 " |
| 111 | Fayette, east of Broadway. | " | 10 " |
| 112 | McCulloh, north of Whitelock. | " | 12 " |
| 113 | Wolfe, bet. Fayette and Pratt sts. | " | 10 " |
| 114 | Pratt st., east of Broadway. | " | 20 " |
| 118 | Orem lane, east of Pennsylvania ave. | " | 10 " |
| 119 | Auchentoroly Terrace, bet. Orem lane and Orem Place. | " | 6 " |
| 121 | Pages court, east of Schroeder st. | " | 4 " |
| 122 | York rd., north of Gorsuch ave. | " | 6 " |
| 123 | Chester st., south of Lombard. | " | 6 " |
| 124 | Race and Ostend, Race and Fort ave. and Clarkson and Clement. | Hydrants, | 5 " |
| 127 | Chase, bet. Collington and Patterson Park avenues. | Main, | 6 " |
| 130 | Henry st., south of Fort ave. | " | 6 " |
| 131 | Madison, bet. Bond and Washington sts. | " | 20 " |
| 137 | Alley south of Lafayette ave., west of Hopkins ave. | " | 6 " |
| 138 | Gilmor, bet. Pratt and Hollins. | " | 6 " |
| 143 | Old Frederick road and Augusta avenue, (Catonsville) | Hydrant, | 5 " |
| 144 | Mount, bet. Matthew ave. and Reese st. | Main, | 6 " |
| 145 | Elizabeth st., north of Heath st. | " | 3 " |
| 147 | Guilford ave., bet. Lanvale and Oliver sts. | " | 6 " |
| 148 | Oliver st., bet. Guilford & Green'mt aves. | " | 6 " |
| 149 | Falls road, north of Dellwood ave. | " | 6 " |

COMPLETED LINES BY BLUE PRINTS, 1897.—Continued.

| Print No. | Location. | Remarks. | | |
|---|---|---|---|---|
| 00150 | Bernard st., north of 26th st | Main, | 6 | inch. |
| 151 | Sargeant, west of Carey st | " | 6 | " |
| 152 | Columbia ave., east of Scott st | " | 10 | " |
| 154 | Merryman's lane and Hickory ave | " | 6 | " |
| 155 | Alley south of Saratoga, west of Mount st. | Blow, | 2 | " |
| 156 | Fayette, bet. Schroeder and Stricker sts. | Main, | 10 | " |
| 157 | Stricker, bet. Fayette and Hollins sts | " | 10 | " |
| 159 | Henrietta, bet. William and Warner sts. | " | 30 | " |
| 160 | Warner, Columbia ave. and Greene sts | " | 30 | " |
| 162 | Monroe, between Saratoga and Pierce sts. | " | 6 | " |
| 169 | Smallwood, bet. North and Augusta aves. | " | 6 | " |
| 170 | Madeira, between Pratt and Boyer sts | " | 6 | " |
| 171 | Alley south of Clifton east of Fulton ave. | " | 6 | " |
| 172 | 26th st., east of York road | " | 6 | " |
| 174 | Bellview ave., between Garrison and Eldorado aves | " | 12 | " |
| 175 | Mosher east of Mt. Royal aye | Supply, | 1½ | " |
| 177 | Eldorado, bet. Ridgewood and Bellview. | Main, | 12 | " |
| 178 | Eldorado north of Bellview | " | 12 | " |
| 180 | Federal, between Broadway and Gay st. | " | 20 | " |
| 184 | 27th st. west of St. Paul st | " | 6 | " |
| 184a | Falls road north of Merrymans lane | " | 6 | " |
| 186 | Henry and alley north of Fort ave | " | 6 | " |
| 188 | Cole east of Gilmor st | " | 6 | " |
| 189 | Orleans east of Hopkins ave | " | 6 | " |
| 190 | Penhurst, bet. Garrison and Eldorado aves. | " | 6 | " |
| 191 | Fernhill, bet. Garrison and Eldorado aves. | " | 6 | " |
| 192 | Grenada, bet. Ridgewood and Bellview av. | " | 6 | " |
| 198 | Smallwood, bet. McHenry and Wilkens ave. | " | 10 | " |
| 213 | Preston, between Linden and Park aves. | " | 6 | " |
| 214 | Gilmor, between Raborg and Hollins sts. | " | 6 | " |
| 217 | Myrtle ave., bet. George and Lexington sts. | " | 10 | " |
| 219 | Cheston south of Clifton ave | " | 6 | " |
| 220 | Alley S. of Riggs ave. E. of Stricker st. | " | 3 | " |
| 221 | Howard and Henrietta sts | 30-inch detail. | | |
| 222 | Ramsay and Wilkens ave | Main, | 10 | " |
| 223 | Gough and Chester sts | " | 10 | " |
| 225 | McMechen st. west of Eutaw Place | " | 6 | " |
| 226 | Lanvale and Morris alley | Connection, | 10 | " |
| 227 | Merrymans lane and Chapel road | Main, | 6 | " |
| 229 | Oliver east of Aisquith st | " | 6 | " |
| 231 | Mosher, bet. Morris and McCulloh alley. | " | 10 | " |
| 232 | Newington west of Park ave | " | 6 | " |
| 233 | Bruce south of Fayette st | " | 6 | " |
| 234 | North ave., bet. Fulton ave. and Mount st. | " | 6 | " |
| 235 | Fulton ave. south of North ave | " | 6 | " |
| 237 | Fayette, bet. Schroeder and Pine sts | " | 10 | " |
| 238 | Pratt, bet. Parkin and Schroeder sts | " | 10 | " |
| 239 | Pratt, bet. Carey and Carrollton ave | " | 10 | " |

COMPLETED LINES BY BLUE PRINTS, 1897—Continued.

| Print No. | Location. | Remarks. |
|---|---|---|
| 00240 | Mount, bet. North ave. and Northwest st.. | Main, 6-inch. |
| 241 | Linden ave. and Bolton st..... | " 10 " |
| 243 | Elm ave. south of 3d ave..... | " 6 " |
| 244 | Forrest east of Garrison ave..... | " 6 " |
| 245 | Springdale east of Liberty road..... | " 6 " |
| 246 | Riggs ave. west of Stricker st..... | " 10 " |
| 247 | Fairview ave. east of New Liberty road.. | " 6 " |
| 248 | Cleveland ave. east of Liberty road..... | " 6 " |
| 249 | Hopkins ave. south of Lafayette ave..... | " 10 " |
| 250 | Lafayette ave. east of Hopkins ave..... | " 10 " |
| 254 | Calloway ave. west of Liberty Heights ave. | " 6 " |
| 255 | 25th st., bet. York road and St. Paul st.... | " 20 " |
| 256 | 25th st., bet. St. Paul & Huntingdon ave. | " 20 " |
| 260 | Green and Pearl, bet. Lombard and Penn. | " 40 " |
| 261 | Chester, between Lanvale and Federal sts. | " 10 " |
| 263 | Pearl and Saratoga sts..... | 40-inch detail. |
| 265 | Canton and Central aves..... | 5 " hydrant. |
| 266 | Block st. east of Wills..... | 5 " " |
| 267 | Belair ave. north of North ave..... | Changed service. |
| 268 | Franklin road to toll-gate..... | Main, 6-inch. |
| 269 | Monroe south of Lanvale st..... | " 6 " |
| 271 | Boyer east of Collington ave..... | " 3 " |
| 272 | Alley S. of Stockholm W. of Columbia ave. | " 3 " |
| 278 | Alley N. of Saratoga, bet Carey & Calhoun. | " 6 " |
| 279 | Pearl and Fayette sts ..... | 40-inch detail. |
| 280 | Dolphin and Mt. Royal ave..... | Main, 6-inch. |
| 281 | Monroe north of Lexington..... | " 6 " |
| 282 | Bernard and 30th sts..... | " 6 " |
| 283 | 26th st. east of Bernard..... | Blow, 2 " |
| 286 | Mount st. north of Saratoga..... | Main, 10 " |
| 291 | Howard st., between Camden and Conway. | " 6 " |
| 293 | Franklin, bet. Arlington ave. & Schroeder. | " 10 " |
| 294 | Harlem, bet. Carrollton and Arlington aves | " 10 " |
| 296 | Payson and Fayette, between Baltimore st. and Fulton ave ..... | " 10 " |
| 299 | Friendship and Baker sts..... | " 6 " |
| 300 | Lexington and Bruce sts..... | Valve, 6 " |
| 302 | Mulberry, between Paca and Myrtle ave.. | Main, 20 " |
| 307 | High, between Granby and Eastern ave.. | " 10 " |
| 309 | Warren ave. east of William..... | " 10 " |
| 312 | Monroe and Riggs ave ..... | " 6 " |
| 316 | Fulton, bet. Pennsylvania & Druid Hill av. | " 12 " |
| 317 | Groveland west of Garrison ave..... | " 6 " |
| 319 | Granada south of Evergreen ave..... | " 6 " |
| 320 | Mine Bank lane north of Belair ave..... | Blow, 2 " |
| 321 | Evergreen and Kensington aves..... | Main, 12 " |
| 322 | Bentalou and Ramsay sts..... | " 6 " |
| 323 | Alley north of Ramsay west of Smallwood. | " 4 " |
| 324 | Wooster, between Ridgely and Russell... | " 6 " |

COMPLETED LINES BY BLUE PRINTS, 1897—Continued.

| Print No. | Location. | Remarks. |
|---|---|---|
| 00328 | Woodbrook ave. north of Fulton ave | Main, 6-inch. |
| 326 | Schroeder and Hollins sts | Connection, 6 " |
| 327 | Lee east of Fremont st | Main, 6 " |
| 329 | Towson south of Beason | " 6 " |
| 331 | Clifton, between Fulton ave and Mary st. | " 6 " |
| 334 | Newington east of Bolton st | " 6 " |
| 337 | Whitelock, bet. Linden ave. & McCulloh st. | " 12 " |
| 332 | Linden ave., bet. North ave. & Whitelock. | " 12 " |
| 338 | Bay View Asylum | 6-inch strainer. |
| 339 | Hickory ave. north of Merryman's lane | Main, 6 " |
| 340 | Fulton ave., bet. North & Druid Hill aves. | Main, 12-inch. |
| 341 | North ave. and Broadway | 6-inch connections. |
| 342 | Lovegrove alley, north of Mt. Royal ave. | Main, 6-inch. |
| 343 | Ashland ave. and Castle st | 3 & 4-in. connection. |
| 347 | Eager, bet. Bond and Broadway | Main, 6-inch. |
| 348 | Orleans, bet. Wolfe and Washington sts. | " 6 " |
| 349 | Paca, bet. Bayard and Bush sts | " 6 " |
| 350 | Etting, north of Whitelock | " 6 " |
| 353 | Fremont, bet. Harlem ave. & Franklin st. | " 6 " |
| 356 | Lafayette ave. and Regester st | " 6 " |
| 358 | Ready and Arlington aves | " 6 " |
| 363 | Madeira alley, north of Gough st | " 3 " |
| 364 | Alley north of Bane, east of Paca st | " 2 " |
| 365 | Fulton ave., north of Pratt st | " 6 " |
| 372 | Alley south of Clifton ave., west of 11th st. | " 6 " |
| 373 | Preston and Hargrove alley | 6-inch connections. |
| 374 | Light, bet. Randall and Wells sts | Main, 10-inch. |
| 375 | Lombard and Liberty sts | 5-inch hydrant. |
| 377 | Pulaski, bet. Ramsay and McHenry sts. | Main, 6-inch. |
| 378 | Charles, bet. Fayette and Mulberry sts. | " 10 " |
| 379 | Baltimore, Saratoga and St. Paul sts. | Changed services. |
| 381 | Beason and Lowman sts | Main, 4-inch. |
| 384 | Northwest and Ninth sts | 5-inch hydrant. |
| 386 | Josephine, east of Pine st | Main, 6-inch. |
| 387 | Girard ave., east of Latrobe st | " 6 " |
| 389 | Wells, bet. Light and Johnson sts | " 10 " |
| 391 | Oliver and Wolfe, bet. Durham & Chase. | " 20 " |
| 392 | Eager and Wolfe sts | 5-inch hydrant. |
| 394 | Alley south of St. Peter, east of Cross st. | Main, 4-inch. |
| 395 | Patterson ave., west of Fulton ave | " 6 " |
| 396 | Baltimore Car Wheel Works | 6-inch connection. |
| 397 | Eastern ave. and Streeper st | Main, 6-inch. |
| 398 | Forrest, bet. Fayette and Comet sts | " 6 " |
| 399 | Williamson, bet. Charles and Light sts. | " 6 " |
| 400 | North ave. and Washington st | 5-inch hydrant. |
| 401 | North ave. and Patterson Park ave | 5 " " |
| 402 | Calverton road, bet. Edmondson ave. and Mulberry st | Main, 6-inch. |
| 403 | Paca, bet. Mulberry and Saratoga sts | " 20 " |

COMPLETED LINES BY BLUE PRINTS, 1897.—Continued.

| Print No. | Location. | Remarks. |
|---|---|---|
| 00404 | Howard and Monument sts | 6-inch connections. |
| 405 | Fayette, bet. Paca and Howard sts | Main, 6-inch. |
| 408 | William, bet. Warren ave. and Clement st. | " 20 " |
| 409 | Hoffman, bet. Bradford al. and Luzerne st. | " 6 " |
| 411 | Milton ave., bet. Oliver and Preston sts. | " 10 " |
| 415 | Alley west of Burrows, south of Clemm st. | " 6 " |
| 416 | Pratt st. and Patterson Park ave | " 20 " |
| 418 | McElderry, east of Caroline st | " 6 " |
| 420 | Callow ave., bet. Newington & Whitelock. | " 6 " |
| 421 | Barney, bet. Covington and Jackson | " 6 " |
| 422 | Charles, bet. Hill and Montgomery sts | " 6-inch. |
| 423 | Chase, bet. Valley and Wilcox sts | " 6 " |
| 425 | Shuter, south of Ashland ave | " 3 " |
| 426 | Barclay, north of Oliver st | " 6 " |
| 427 | St. Paul st., bet. Mulberry and Saratoga sts. | " 20 " |
| 430 | Mercer, west of Light st | " 6 " |
| 432 | Merryman's lane, east of Hickory ave | " 6 " |
| 433 | Second ave., west of Cedar ave | " 6 " |
| 436 | Charles, bet. 24th and 25th sts | Change of service. |
| 437 | Lafayette av., bet. Bloomingdale rd. & 6th st | Main, 6-inch. |
| 438 | Walsh st., north of Laurens st | " 3 " |
| 439 | Cedar and Third aves | 5-inch hydrant. |
| 441 | Lanvale st. and Bloomingdale rd | Main, 6-inch. |
| 444 | Paca and Lombard | 20-inch valve. |
| 445 | Roland ave. and Oliver Place | 5-inch hydrant. |
| 448 | Hickory ave., north of Fifth ave | Main, 6-inch. |
| 452 | Brunt, bet. Baker and Presstman sts | " 6 " |
| 460 | Pratt st., west of Little Gough st | " 3 " |
| 449 | Alley, north of North av., east of Garrett av. | " 6 " |
| 440 | Garrett ave., bet. North ave. and 20th st. | " 3 " |
| 450 | Baltimore and Light sts. | |
| 463 | Williamson, east of Hanover st | " 3 " |
| 465 | Alley, south of Clement, west from Decatur | " 4 " |
| 466 | Pulaski, south of North ave | " 6 " |
| 467 | Monument, bet. Chester & PattersonPk. avs | " 10 " |
| 468 | Roland ave. and Oliver Place | 5-inch hydrant. |
| 469 | Boyd, west of Payson st | Main, 6-inch. |
| 472 | Bowley's Wharf (foot) | 2-inch meter. |
| 475 | Loudon ave. (Catonsville water supply) | 5-inch hydrant. |
| 477 | McMechen and McCulloh alley | 20x6 Smith clamp. |
| 478 | Robinson, bet. Hudson and O'Donnell sts. | Main, 6-inch. |
| 479 | Fayette, bet. Charles and McClellan alley. | " 6 " |
| 480 | Monument and Broadway | 10-inch valve. |
| 481 | Fulton, bet. Preston and Baker sts | Main, 6-inch. |
| 483 | Stockton, bet. Stricker & Winchester sts. | " 6 " |
| 484 | Alley, N. of Orleans, E. from Washington st. | 2-inch blow. |
| 485 | Patterson Park ave. and Jefferson st. | 6-inch valve. |
| 492 | Pennsylvania ave. and Pearl st | 40-inch connection. |

COMPLETED LINES BY BLUE PRINTS, 1897.—Continued.

| Print No. | Location. | Remarks. |
|---|---|---|
| 00494 | Loudon ave. and McHenry st. (Catonsville Water Co.) | 4-inch hydrant. |
| 495 | North ave. and Bond | 36-inch clamp. |
| 497 | Caroline and Federal sts | 6-inch clamp and connection. |
| 498 | Lexington, bet. Holliday and Gay sts | Main, 6-inch. |
| 500 | 26th st., bet. York road and Barclay st | " 6 " |
| 501 | Lanvale st., east of Mt. Royal ave | " 6 " |
| 504 | Frederick and Fulton aves | " 6 " |
| 505 | Lynbrook ave., east of Pennsylvania ave. | " 6 " |
| 506 | Fayette, west of Catherine st | " 6 " |
| 507 | Florence, bet. Retreat and Clifton sts | " 4 " |
| 509 | Harmons Bridge | " 8 " |
| 512 | Hickory ave. north of Merrymans lane | " 6 " |
| 513 | Preston west of Milton ave | " 10 " |
| 516 | Mullikin east of Caroline | " 4 " |
| 517 | Haw, between Penn and Emory sts | " 3 " |
| 520 | Mulberry and Tyson sts | 8-inch connection. |
| 524 | Woodbrook ave. east of Ruskin ave | Main, 6-inch. |
| 527 | Johnson, bet. Winder and Donaldson sts | " 10 " |
| 528 | Donaldson east of Johnson st | " 6 " |
| 529 | Bond, bet. Pratt and Lombard sts | " 6 " |
| 533 | Fayette and Chester sts | 10-inch connection. |
| 534 | Chester and alley south of Baltimore st | Main, 4-inch. |
| 535 | Patterson Park ave. south of Baltimore st. | " 10 " |
| 537 | Barre, between Ridgely and Fremont sts | " 6 " |
| 542 | Ostend and Patapsco sts | 5-inch hydrant. |
| 548 | Hampden ave. and 27th st | Main, 6 " |
| | *Mains Laid, No Prints.* | |
| | Russell, bet. Haines and Harmons Bridge | Main, 10-inch. |
| | Harmons Bridge (wro't iron, temporary) | " 3 " |

## MAINS LAID PREVIOUS TO MARCH 15, 1897.

| Date of completion. | Location. | Remarks. |
|---|---|---|
| Jan. 25 | Bond, bet. Preston and North ave..... | Main, 12-inch. |
| " 26 | Federal, bet. Bond and Ensor st..... | " 10 " |
| " 9 | Aisquith, bet. Fayette and Laurel sts..... | " 8 " |
| " 7 | Mt. Royal ave., bet. Cathedral & Guilford avenue ..... | Main, 6 and 8-inch. |
| " 5 | Wine alley, bet. Charles and Light sts.... | " 6 " |
| " 7 | Oakland Terrace, bet. Old York road and York road ..... | " 6 " |
| " 7 | Alley south of Townsend st., bet. Ann and Regester sts..... | " 6 " |
| " 8 | Maldeis, bet. Hamburg and Cross sts.... | " 6 " |
| " 8 | Baker, bet. Fulton av. and Friendsbury st. | " 6 " |
| " 8 | Alley S. of Glyndon, W. from Wooster st. | " 6 " |
| " 12 | Hickory ave., bet. 4th and 5th aves..... | " 6 " |
| " 12 | Cooksie, bet. Fort ave. and Clement st... | " 6 " |
| " 13 | Alley N. of Lehman, W. from Brunswick. | " 6 " |
| " 13 | Eager, bet. Somerset and Aisquith sts..... | " 6 " |
| " 13 | Cheapside, bet. Water and Lombard..... | " 6 " |
| " 13 | Federal, bet. Harford ave. and Lamont st. | " 6 " |
| " 15 | Federal, bet. Ensor and Harford ave..... | " 6 " |
| " 16 | Alley east of Potomac, bet. Dillon and O'Donnell sts..... | " 6 " |
| " 16 | Alley south of North ave., bet. Third st. and Bradish avenue..... | " 6 " |
| " 16 | Tenth st., bet. Presstman and Poplar sts.. | " 6 " |
| " 26 | McMechen, bet. Mt. Royal and North avs. | " 6 " |
| Feb. 20 | Lanvale, bet. Payson and Pulaski sts..... | " 6 " |
| " 22 | Bruce, bet. Northwest and Baker sts..... | " 6 " |
| " 22 | Presbury, bet. Mount and Fulton ave..... | " 6 " |
| " 22 | Mulberry, bet. Poppleton and Schroeder.. | " 6 " |
| " 11 | Alley S. of Cross, bet. Dexter & Sassafras. | " 6 " |
| " 13 | Madison, bet. Independence & Quaker la.. | " 6 " |
| " 27 | Chapel road, north of Merryman lane..... | " 6 " |
| " 19 | Alley west of York rd., bet. 22d & 23d sts., and Old York rd., bet. 22d and 23d sts.. | " 6 " |
| " 20 | Patapsco, bet. Fayette and Baltimore, and Fairmount ave..... | " 6 " |
| " 13 | Collett, bet. Penna. ave. and Carey st.... | " 4 " |
| " 15 | Gold, bet. Division and Bouldin sts..... | " 4 " |
| Mch. 17 | Marshall, bet. Beverly and Fort ave..... | " 10 " |
| " 20 | Orleans, bet. Port st. and Milton ave..... | " 10 " |
| " 1 | Calhoun, bet. Cumberland and Baker sts. | " 6 " |
| " 3 | Calhoun, bet. Gold and Presstman sts.... | " 6 " |
| " 3 | James, bet. Carey and Bayard sts..... | " 6 " |
| " 10 | Reese, bet. Brady and Oxford aves..... | " 6 " |
| " 10 | Ramsay, bet. Stricker and Norris alley... | " 6 " |

MAINS LAID PREVIOUS TO MARCH 15, 1897—Continued.

| Date of completion. | Location. | Remarks. |
|---|---|---|
| Mch. 11 | Lovegrove alley, bet. 27th and 28th sts... | Main, 6-inch. |
| " 11 | Carey, bet. Lexington and Bethany lane. | " 6 " |
| " 12 | Clinton st., bet. Myrtle & Edmondson avs. | " 6 " |
| " 15 | Alley east of Hopkins ave., bet. Townsend and Lanvale sts..... | " 6 " |
| " 16 | Alley east of Fulton ave., bet. Clifton and Walbrook aves..... | " 6 " |
| " 20 | Milton ave., bet Monument & Fayette sts. | " 6 " |
| " 22 | Mary st., bet. Retreat st. & Mary's Terrace | " 6 " |
| " 25 | Alley east of Fulton ave., bet. Northwest and Presbury..... | " 6 " |

INCOMPLETED LINES JANUARY 1, 1898.

| Print No. | Location. | Remarks. |
|---|---|---|
| 00098 | Pratt, bet. Central ave. and Bond st..... | Main, 20-inch. |
| 116 | Montford ave., south of Lafayette ave.... | " 6 " |
| 182 | North av., bet. McMechen and Guilford av. | " 48 " |
| 187 | North av., bet. Guilford av. & Aisquith st. | " 48 " |
| 193 | Aisquith and Lanvale, bet. North and Hopkins ave..... | " 48 " |
| 228 | Greenmount ave. and North ave..... | 48-inch detail connection. |
| 236 | Fayette, bet. Paca and Pine sts..... .... | Main, 10-inch. |
| 251 | Lombard and Greene sts ..... | 40-inch connection. |
| 257 | Huntingdon ave., bet. 25th and 30th sts .. | Main, 20-inch. |
| 258 | Remington ave., bet. 30th st. and 1st ave. | " 20 " |
| 259 | Chestnut and Third aves..... | " 20 " |
| 284 | Orchard, Madison, Hoffman and Bolton sts. | " 40 " |
| 288 | West, Paca, Eutaw and Cross sts..... | " 20 " |
| 303 | Mulberry, bet. Myrtle ave. & Schroeder st. | " 20 " |
| 304 | Schroeder, bet. Mulberry and Hollins sts. | " 20 " |
| 336 | North ave. and Mary st..... | " 6 " |
| 385 | Western H. S. Reservoir & Druid Hill Park | " 20 " |
| 419 | Huntingdon ave. and Belt Railroad ..... | Girder for 20 " |
| 446 | Third ave., bet. Roland ave. and Falls rd. | Main, 6 " |
| 486 | Reisterstown road to Fifth ave..... | " 20 " |
| 487 | Druid Heights ave..... | " 20 " |
| 492 | Pearl and Pennsylvania ave..... | " 40 " |
| 499 | McHenry, east of Garrison lane ..... | " 6 " |
| 508 | Harmon's bridge..... | Detail, 8 " |
| 519 | Concord, bet. Chase and Eager sts..... | Main, 6 " |

*New Hydrants.*

| | | |
|---|---|---|
| New hydrants—New site, 5 inches | 205 | |
| " " " " 4 inches | 1 | |
| | | 206 |
| New hydrants—Old site, 5 inches | 7 | |
| " " " " 4 inches | 6 | |
| | | 13 |

*New Valves.*

| | | |
|---|---|---|
| New valves—New site, 20 inches | 2 | |
| " " " " 12 " | 1 | |
| " " " " 10 " | 2 | |
| " " " " 6 " | 5 | |
| " " " " 4 " | 16 | |
| " " " " 3 " | 6 | |
| " " " " 2 " | 1 | |
| | | 33 |
| New valves—Old site, 6 inches | 2 | |
| " " " " 4 " | 19 | |
| " " " " 3 " | 10 | |
| " " " " 2 " | 4 | |
| | | 35 |

*New Blow-off Stops.*

| | | |
|---|---|---|
| New blow-off stops—New site, 3 inches | 1 | |
| " " " " " 2 " | 15 | |
| " " " " " 1 " | 2 | |
| | | 18 |
| New blow-off stops—Old site, 2 inches | 1 | |
| " " " " " 1 " | 1 | |
| | | 2 |

*New Service Connections.*

| | | |
|---|---|---|
| New service connections | 2,719 | |
| Billed service connections | 82 | |
| | | 2,801 |

*New Meters Placed.*

| | | |
|---|---|---|
| New meters placed—New sites, 4 inches | 1 | |
| " " " " " 3 " | 14 | |
| " " " " " 2 " | 13 | |
| " " " " " 1½ " | 13 | |
| " " " " " 1 " | 17 | |
| " " " " " ¾ " | 33 | |
| | | 91 |

*New Fountains.*

| | | |
|---|---|---|
| New fountains—Old site | 3 | |
| | | 3 |

## MAINS REPAIRED.

| | | |
|---|---|---|
| Broken mains repaired, 36 inches | 1 | |
| " " " 20 " | 1 | |
| " " " 16 " | 1 | |
| " " " 10 " | 1 | |
| " " " 8 " | 1 | |
| " " " 6 " | 11 | |
| " " " 4½ " | 1 | |
| " " " 4 " | 21 | |
| " " " 3 " | 25 | |
| " " " 2 " | 5 | |
| " " " 1½ " | 2 | |
| | | 70 |
| Joint leaks caulked, 40 inches | 24 | |
| " " " 36 " | 124 | |
| " " " 30 " | 25 | |
| " " " 20 " | 23 | |
| " " " 18 " | 1 | |
| " " " 16 " | 17 | |
| " " " 12 " | 29 | |
| " " " 10 " | 92 | |
| " " " 8 " | 15 | |
| " " " 6 " | 255 | |
| " " " 4½ " | 35 | |
| " " " 4 " | 268 | |
| " " " 3 " | 123 | |
| " " " 2 " | 38 | |
| " " " 1½ " | 125 | |
| | | 1,194 |
| Changing services from old to new mains | | 25 |
| Mains cut off and capped | | 9 |
| Frozen mains thawed | | 1 |
| Mains lowered | | 13 |
| Clogged mains relieved | | 3 |
| Defective clamp on main cut out 20 inches | | 1 |
| Fire hydrants flushed and pumped out | | 21,416 |
| " " covers painted | | 647 |
| " " capped and repaired | | 537 |
| Frozen fire hydrants thawed | | 516 |
| Changing location of fire hydrants | | 6 |
| Clogged hydrant services relieved | | 3 |

*Repairs to Fountains.*

| | |
|---|---|
| Changing location of fountains | 3 |
| Fountains repaired | 179 |
| Fountains removed (sites abandoned) | 2 |
| Clogged fountains relieved | 47 |
| Fountains turned off to prevent freezing | 210 |

*Repairs to Valves.*

| | |
|---|---|
| Stop valves repaired | 307 |
| Valves paved over and exhumed | 7 |
| Main valves cut out | 1 |
| Blow-off valves flushed | 872 |
| Street rims placed | 21 |
| Wooden stop boxes placed | 4 |

*Repairs to Services.*

| | |
|---|---|
| Ferrules drawn for leaks | 112 |
| Clogged service pipes and ferrules relieved | 201 |
| Service and private pipe leaks | 342 |
| Broken services repaired | 72 |
| Abandoned ferrules drawn | 106 |
| Frozen services thawed | 1 |
| Abandoned services cut off | 3 |
| "No leak" calls | 256 |
| "Service and meter repair" bills | 470 |

*Repairs to Meters.*

| | |
|---|---|
| Clogged meters relieved | 39 |
| Meters repaired | 389 |
| New meter boxes placed | 67 |
| New meter box locks placed | 37 |
| Meter boxes repaired | 88 |
| Old meters replaced by new | 8 |
| Changing location of meter | 2 |
| Meters withdrawn | 10 |
| Temporary meter placed and withdrawn | 1 |
| Meters packed to prevent freezing | 574 |

## MISCELLANEOUS WORK.

| | |
|---|---|
| Ferrules drawn order Water Registrar | 161 |
| Ferrules returned order Water Registrar | 78 |
| Services turned off order Water Registrar | 2,242 |
| Services turned on order Water Registrar | 1,538 |
| Private pipes cut off order Water Registrar | 6 |
| Private pipes connected up order Water Registrar | 2 |
| Ferrules drawn order Chief Engineer | 2 |
| Services turned on order Chief Engineer | 1 |
| Illegal connection turned off | 1 |
| Plumbing inspections | 1,168 |

# Report of Superintendent of County Division for the Year Ending December 31, 1897.

*Mr. Nicholas S. Hill, Jr., Chief Engineer:*

SIR: I herewith respectfully submit my report for the year ending December 31, 1897.

## JONES' FALLS SUPPLY.

The rainfall on this supply was 10½ inches more than that of the previous year.

The water in Lake Roland has been too muddy to use for 21 days. The greatest flow over the dam was on October 24, when it reached a height of 268 feet. The lowest point below the crest of the dam was on November 1, it then being 2.45 feet. 651 panels of fence have been erected at different points around the property. The road leading from the dam to Lakeside Park has been repaired, and is now in good condition. Surveys and plans have been made and a contract awarded for dredging this lake, but owing to an injunction having been laid no work has as yet been done. It has been customary to allow ice to be cut from this lake, and also to permit skating upon it. This I consider dangerous, particularly at night, as large crowds gather upon it, and there being no lights, they cannot see the weak places. Signs are placed at various places, but these are pulled up almost as soon as they are placed.

The Jones Falls conduit continues in good order, 3,864,373,000 gallons having passed through during the year. The boundary lines of the property along this conduit, which had become obliterated, have been relocated and stones planted at the corners. Some damage was done to the fencing along the Falls road by

the Baltimore and Northern Electric Railroad. This has been repaired and the bill presented to the company. The Roland Park Company was granted permission to use a portion of this property for golf grounds.

Harper's waste weir continues in good condition, and has been attended with no expense except to repair the slate roof.

### HAMPDEN RESERVOIR.

This reservoir continues to do good service. The lowest water was on June 3, it then being 7.35 feet out. The reservoir and grounds are in good order. The grounds were given a top dressing of manure, which proved beneficial. The four 30-inch pipe lines from this reservoir which supply Druid Lake are not working satisfactorily. I recommend that blows be placed upon each of them near the bed of the Falls so that they could be cleaned out.

### DRUID LAKE.

This lake has done good service during the year. The lowest point reached was on June 3, when it was 7.35 feet out. The daily consumption of water averaged 12,604,000 gallons. This being 2,049,000 gallons more than was furnished by the Jones' Falls supply, this deficiency had to be made up by pumping from the Eastern Pumping Station. The outer slopes of this reservoir also received a top dressing of manure, and the grass was very much benefitted thereby.

### WESTERN HIGH SERVICE RESERVOIR.

There were 203,933,000 gallons of water pumped into this lake during the year from Druid Lake. This is 158,800,000 gallons more than last year. There were also 2,339,117,000 gallons pumped by the Eastern pumps from the Gunpowder supply. This is a decrease of 543,502,000 gallons from last year. In performing the above work the pumps at the Western Station were operated 1,327¾ hours, consuming 290½ tons of coal; those at the Eastern Station 8,484 hours, and consuming 2,804¾ tons of coal. The grass on the outer slope of this reservoir is very thin. It should be reseeded and a good coat of manure put on it.

### GUNPOWDER SUPPLY.

The rainfall on the supply was 12 inches more than the previous year.

### LOCH RAVEN.

The water in this loch was muddy 67 days during the year; this being 16 days less than in 1896. The dredging plant used by the contractors last year was purchased by the department and put in operation in August and continued until December 1. This resulted in the removal of 80,821 cubic yards, at a cost of .052 cents per cubic yard. There is now a clear basin for a distance of 2,480 feet above the dam, the full width of the loch, and with an average depth of 14.2 feet. A dock was constructed at a cost of $1,097 for harboring this dredge during the winter. The dredge has been recaulked and the hull and machinery are in good condition, but the roof needs repairing. The total flow of water was 12,099,179,000 gallons more than the previous year, the flow of clear water over the dam was 5,006,263,000 gallons less, and the muddy water over same was 6,000,455,000 gallons more than during 1896; the highest water during the year was on February 6, it then being 6.0 feet above the dam; there were 14,674,675,000 gallons more water passed through the drain gates than during the previous year. This has proved beneficial by carrying off a large amount of sediment, and causing the water to clear much more rapidly. The road along the loch has been kept in better condition at a less cost than formerly, this being done by the road machine which was purchased in the spring. The coping of the several bridges and around the gate house has been pointed; the gate house and conduit leading to Lake Montebello are in good working order. On May 15, accompanied by Mr. Dapprich, I made an inspection of the conduit. We entered at Loch Raven at 10 A.M., reached Lake Montebello at 4.15 P.M. Several dams had formed, backing the water to a depth of about two-and-a-half feet; these were all opened, and the conduit was afterwards washed out by opening the gates at Loch Raven and allowing the water to pass out through the drain tunnel at Lake Montebello, using 97,900,000 gallons.

Five hundred bushels of oats, three hundred and fifty barrels of corn, and a large quantity of hay was raised here. I again recommend that the various buildings at this loch be painted.

### LAKE MONTEBELLO.

This lake has been practically full of water during the year, the lowest point reached being on the 24th of July, when it was 10.5 feet out. Two thousand bushels of lime were used upon the grass, with beneficial results. The drain tunnel around the lake and the one leading to Lake Clifton are in good condition, and have been attended with no expense during the year. The roof of the gate-house has been painted, but its interior and the dwelling also need it. It has been difficult to keep the weeds out of the driveway around this lake, there being very little traffic upon it, and the coat of gravel being so thin that the road machine does not work satisfactorily, going through it and catching upon the large stones of which the road is made.

### LAKE CLIFTON.

This lake, like Montebello, has been full of water during the year; the removal of the fence at the foot of the slope along Washington street, together with the manure which was placed upon the grass, have improved the appearance of this place very much; the slope above the drive at the north end of the lake has been spaded and reseeded, but should receive a coat of manure next spring; the lake gate-house, vault and pipe lines are in good order.

### GUILFORD RESERVOIR.

This reservoir has been practically full of clear water during the year, and has been attended with no unusual expense; the keeper's house, vault and pipe line leading therefrom are in good order, but the outer slope of the reservoir should be reseeded and top dressed with manure.

MT. ROYAL RESERVOIR.

The water in this reservoir was very low during the summer months; the slope near the N. C. R. R., which was washed out by heavy rains, has been repaired. No. 3 stop in the vault was disabled; this has been repaired; the reservoir vault and pipe lines are in good order.

The officers and men of this division have performed their various duties in a satisfactory manner.

Respectfully submitted.

WILLIAM BENTHALL,

*Engineer and Superintendent County Division.*

## BALTIMORE CITY WATER WORKS.

### Table of Rainfall in Inches.

| 1897. | Jones' Falls Supply. | | | Gunpowder Supply. | | | | |
|---|---|---|---|---|---|---|---|---|
| | Lake Roland. | Hampden Reservoir. | Druid Lake. | Mt. Royal Reservoir. | Loch Raven. | Lake Montebello. | Lake Clifton. | Guilford Reservoir. |
| January | 1.90 | 1.94 | 1.94 | 1.50 | 2.14 | 1.67 | 1.54 | 1.40 |
| February | 5.35 | 6.92 | 5.36 | 5.47 | 6.35 | 5.73 | 5.91 | 5.29 |
| March | 2.48 | 3.05 | 2.38 | 2.36 | 2.42 | 2.32 | 2.63 | 2.20 |
| April | 2.12 | 2.53 | 3.26 | 2.15 | 4.51 | 3.42 | 2.73 | 2.79 |
| May | 6.61 | 6.49 | 7.14 | 7.02 | 6.70 | 6.46 | 6.99 | 6.19 |
| June | 1.87 | 2.25 | 2.49 | 2.28 | 1.52 | 2.37 | 2.68 | 1.64 |
| July | 7.35 | 6.77 | 7.73 | 7.45 | 7.92 | 6.77 | 6.91 | 6.10 |
| August | 4.48 | 4.51 | 4.70 | 4.99 | 5.09 | 6.96 | 5.82 | 4.50 |
| September | 1.55 | 2.17 | 2.17 | 2.15 | 2.30 | 1.66 | 1.71 | 1.75 |
| October | 3.10 | 4.08 | 3.80 | 4.28 | 3.70 | 3.76 | 3.39 | 3.84 |
| November | 5.35 | 5.63 | 5.27 | 5.08 | 5.80 | 5.08 | 4.94 | 5.55 |
| December | 3.50 | 3.80 | 3.62 | 3.26 | 3.95 | 3.23 | 3.43 | 3.53 |
| Totals | 45.66 | 50.14 | 49.86 | 47.99 | 52.40 | 49.43 | 48.68 | 44.78 |

WM. BENTHALL, *Superintendent County Division.*

# APPENDIX.

# LENGTH AND COST OF NEW MAINS LAID IN 1897 AND COMPARISON WITH RECORD OF 1896.

# COST OF REPAIRS TO MAINS IN 1897.

## MATERIALS AND LABOR.

## PAVING.

| Months | No. Breaks | No. Leaks | No. Leaks on Service Pipes | No. Repairs | Cast Iron Pipe: Wgt. Lbs | Cast Iron Pipe: Cost | Large Fittings: Wgt. Lbs | Large Fittings: Cost | Small Fittings: Wgt. Lbs | Small Fittings: Cost | Special Castings: Wgt. Lbs | Special Castings: Cost | Valves: No. | Valves: Cost | Lead: Wgt. Lbs. | Lead: Cost | Rope: Wgt. Lbs | Rope: Cost | Fuel: Cost. | Labor: Cost. | Hauling: Cost | Total Cost Material and Labor | Bricks: No. Brs. | Bricks: Cost | Stone: No. Cu. Yds | Stone: Cost | Sand: No. Square Yds | Sand: Cost | Asphalt: Cost | Labor: Cost | Hauling: Cost | Total Cost Paving. | Total No. Sq. Feet Paving. | Cost Per Sq. Ft. Cts | Cal. Date | Total Cost Repairs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 63 | 9 | 8 | 81 | | | | | | | | | | | | | | | | | | $879 20 | | | | | | | | | | $311 39 | 9,225 | 031 | | $1 193 79 |
| February | 99 | 3 | 16 | 59 | | | | | | | | | | | | | | | | | | 942 88 | | | | | | | | | | 711 61 | 20,102 | 041 | | 1 654 49 |
| March | 160 | 6 | 19 | 185 | | | | | | | | | | | | | | | | | | 1,201 35 | | | | | | | | | | 940 25 | 31,568 | 024 | | 2,141 60 |
| April | 60 | 4 | 21 | 195 | | | | | | | | | | | | | | | | | | 717 15 | | | | | | | | | | 757 93 | 28,601 | 028 | | 1,475 08 |
| May | 23 | 2 | 16 | 66 | | | | | | | | | | | | | | | | | | 550 78 | | | | | | | | | | 291 19 | 11,111 | 029 | | 841 97 |
| June | 146 | 7 | 3 | 85 | 82 | $ 71 | | | 280 | $1 84 | 67 | $1 00 | | | 151 | $3 62 | 3 | $ 11 | $ 08 | $110 78 | $25 75 | 118 24 | 172 | $1 29 | | $7 25 | | $10 46 | | $392 16 | $113 19 | 631 64 | 22,275 | 02 | $1 90 | 1,001 79 |
| July | 90 | 5 | 8 | 101 | 1 069 | 10 65 | 82 | $1 41 | 790 | 13 50 | 290 | 4 72 | | $3 76 | 150 | 4 95 | 10 | 10 | 88 | 585 21 | 10 32 | 660 31 | 56 | 28 | | 23 12 | | 16 50 | | 610 22 | 187 53 | 857 67 | 28,085 | 029 | 2 30 | 1,506 21 |
| August | 84 | 4 | 7 | 118 | 6 750 | 67 39 | 1,161 | 20 36 | 2 930 | 49 31 | 102 | 6 51 | 1 | 20 50 | 587 | 19 55 | 65 | 2 65 | 2 16 | 166 03 | 41 42 | 629 66 | | | | 2 50 | | 1 15 | | 312 94 | 110 52 | 427 15 | 18,900 | 024 | 1 15 | 1,087 96 |
| September | 82 | 4 | 11 | 116 | 4 650 | 47 19 | 332 | 5 81 | 787 | 13 35 | 139 | 2 11 | | 3 52 | 290 | 12 10 | 18 | 71 | 1 52 | 378 93 | 33 88 | 199 93 | | | | | | 1 40 | | 309 52 | 106 31 | 417 16 | 17,108 | 024 | 1 15 | 918 84 |
| October | 100 | 4 | 24 | 147 | 496 | 1 97 | 1 140 | 23 95 | 787 | 13 32 | 350 | 5 68 | 2 | 13 22 | 128 | 17 25 | 29 | 1 16 | 95 | 392 31 | 41 69 | 511 72 | | | | 6 25 | | | | 115 97 | 182 31 | 604 53 | 25 600 | 02 | 1 65 | 1 120 80 |
| November | 113 | 8 | 27 | 185 | 2,081 | 21 68 | 670 | 11 52 | 252 | 4 35 | 51 | 85 | 3 | 1 61 | 311 | 12 82 | 31 | 1 24 | 2 17 | 451 60 | 14 27 | 555 05 | | | | | | 10 20 | | 617 16 | 247 46 | 875 22 | 31,885 | 02 | 80 | 1,111 07 |
| December | 96 | 19 | 14 | 141 | 3 168 | 31 85 | 1 902 | 33 16 | 172 | 8 11 | 155 | 7 37 | | 10 | 1,140 | 17 01 | 51 | 2 04 | 1 37 | 896 33 | 86 37 | 1,117 31 | | | | 1 80 | | | | 677 15 | 335 71 | 1,021 89 | 17,155 | 022 | 10 | 2,117 40 |
| Total | 1 211 | 75 | 187 | 1,396 | 18 749 | $181 61 | 6 291 | $96 56 | 6,298 | $168 11 | 1,777 | $28 60 | 6 | $42 81 | 3,057 | $118 68 | 265 | $8 29 | $12 13 | $3,521 19 | $307 21 | $4,131 25 | 208 | $1 57 | | $10 92 | | $70 21 | | $3,335 14 | $1,363 42 | $4,774 77 | 193,011 | 02 + | $9 14 | $16,198 88 |

NOTE—This statement is complete for the last seven months of the year only.
The old system of account was in use up to June 1, and did not show cost in detail.

# COST OF SERVICE CONNECTIONS INSERTED IN 1897.

MATERIALS AND LABOR.

| Months | Leaks | Cast Iron Pipe Wgt. Lbs | Cast Iron Pipe Cost | C. I. Fittings Wgt. Lbs | C. I. Fittings Cost | W. I. Fittings Wgt. Lbs | W. I. Fittings Cost | Brass Fittings Wgt. Lbs | Brass Fittings Cost | Brass Stops No | Brass Stops Cost | Stop Boxes. No | Stop Boxes. Cost. | Lead Wgt. Lbs | Lead Cost | Rope. Wgt Lbs | Rope. Cost. | Fuel Cost | Labor Cost. | Hauling Cost | Total Cost Material and Labor |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 41 | | | | | | | | | | | | | | | | | | | | $366 21 |
| February | 80 | | | | | | | | | | | | | | | | | | | | 195 31 |
| March | 93 | | | | | | | | | | | | | | | | | | | | 1,148 01 |
| April | 103 | | | | | | | | | | | | | | | | | | | | 1,151 28 |
| May | 201 | | | | | | | | | | | | | | | | | | | | 1,107 30 |
| June | 220 | 19,858 | $458 15 | 1,486 | $59 33 | 48 | $5 11 | 272 | $45 54 | 178 | $128 47 | 230 | $27 60 | 1,735 | $51 98 | 160 | $6 12 | $7 66 | $594 76 | $91 11 | 1,375 07 |
| July | 247 | 14,530 | 335 52 | 1,192 | 59 61 | | | 243 | 39 11 | 148 | 108 12 | 221 | 14 29 | 897 | 26 76 | 121 | 1 82 | 6 11 | 535 71 | 107 35 | 1,169 23 |
| August | 332 | 14,968 | 345 42 | 1,391 | 70 50 | 73 | 2 92 | 360 | 73 16 | 644 | 168 01 | 322 | 116 71 | 1,516 | 45 18 | 161 | 6 57 | 8 47 | 617 31 | 133 92 | 1,559 70 |
| September | 310 | 19,600 | 325 11 | 1,179 | 58 95 | 60 | 2 49 | 326 | 52 16 | 620 | 146 88 | 310 | 111 29 | 1,442 | 57 70 | 175 | 7 01 | 9 22 | 659 50 | 141 86 | 1,586 90 |
| October | 286 | 21,658 | 374 04 | 1,145 | 57 18 | 81 | 3 21 | 360 | 57 61 | 560 | 171 50 | 280 | 119 87 | 1,440 | 57 61 | 161 | 6 44 | 10 42 | 637 43 | 126 51 | 1,593 38 |
| November | 211 | 23,275 | 429 4 | 1,561 | 68 18 | 29 | 1 19 | 308 | 19 28 | 622 | 110 92 | 311 | 129 73 | 1,310 | 52 40 | 150 | 6 00 | 9 96 | 609 14 | 121 33 | 1,547 37 |
| December | 184 | 15,045 | 325 47 | 715 | 37 25 | 43 | 37 16 | 176 | 28 16 | 362 | 81 72 | 181 | 77 56 | 1,045 | 41 81 | 120 | 1 82 | 8 29 | 456 13 | 110 06 | 1,110 66 |
| Total | 1,886 | 174,100 | $3,142 41 | 9,103 | $471 18 | 831 | $49 81 | 2,901 | $388 38 | 3,751 | $973 55 | 1,858 | $630 05 | 9,383 | $333 71 | 1,051 | $42 08 | $59 83 | $4,109 98 | $835 17 | $9,942 31 |

PAVING.

| Months | Bricks No | Bricks Cost | Stone. No Perches. | Stone. Cost. | Sand No Cu. Yds. | Sand Cost | Asphalt No Square Yds | Asphalt Cost | Labor Cost | Hauling Cost | Total Cost Paving | Total Sq. Ft. Paving | Cost Per Sq Ft | Cat Fate | Total Cost of Connections | Total Amt Received for Connections | Net Profit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | | | | | | | | | | | $49 50 | 1,151 | 034 | | $415 71 | | |
| February | | | | | | | | | | | 128 19 | 3,620 | 035 | | 623 50 | | |
| March | | | | | | | | | | | 206 72 | 7,600 | 027 | | 1,654 73 | | |
| April | | | | | | | | | | | 178 33 | 6,729 | 027 | | 1,329 61 | | |
| May | | | | | | | | | | | 152 25 | 5,811 | 026 | | 1,559 55 | | |
| June | 36 | + 18 | 1 | + 63 | 31 | $15 63 | | | $151 39 | $57 47 | 205 60 | 8,305 | 025 | + 70 | 1,581 37 | $2,171 47 | $890 10 |
| July | 93 | 1 25 | | | | | | | 95 59 | 47 13 | 113 97 | 3,360 | 033 | | 1,283 20 | 3,036 27 | 1,752 07 |
| August | | | | | 1 | 20 | | | 155 90 | 39 29 | 195 39 | 8,135 | 023 | 00 | 1,755 61 | 2,888 91 | 1,133 27 |
| September | | | | | | | | | 119 66 | 30 88 | 150 54 | 9,103 | 017 | 80 | 1,738 24 | 2,926 24 | 1,188 00 |
| October | | | | | | | | | 127 75 | 39 07 | 166 82 | 8,369 | 020 | 30 | 1,760 50 | 2,791 97 | 1,031 47 |
| November | | | | | 1 | 13 | 1 | + 23 | 107 16 | 32 30 | 140 12 | 8,113 | 017 | 5 | 1,687 51 | 3,120 32 | 1,432 78 |
| December | | | | | | | | | 76 31 | 26 26 | 102 57 | 5,695 | 018 | 10 | 1,213 33 | 1,699 64 | 186 31 |
| Total | 129 | $1 73 | 1 | + 63 | 33 | $15 96 | 1 | + 23 | $831 06 | $222 10 | $1,075 01 | 51,710 | 021 | $2 50 | $11,019 82 | $18,033 82 | $7,911 00 |

NOTE.—The foregoing is complete for the last seven months of the year only.

Leaks reported to account for only one-eighth of the total, and did not show cost to date.

# COST OF METERED SUPPLIES IN 1897.



MATERIALS AND LABOR.

PAVING.

| Months | Meters: No. of Each Size ¾in. | 1in. | 1½in. | 2in. | 3in. | 4in. | Total No. Meters | Total Cost Meters | Elect'r Supplies | New Location Old Meters. No. | Cost | Meter Boxes. No. | Cost. | C. I. Pipe. Wgt. Lbs. | Cost. | C. I. Fittings. Wgt Lbs. | Cost. | W. I. Fittings. Wgt. Lbs. | Cost. | Brass Fittings. Wgt. Lbs. | Cost. | Valves. No. | Cost. | Stop Boxes No. | Cost. | Lead. Wgt. Lbs. | Cost. | Rope. Wgt. Lbs. | Cost. | Fuel. | Labor. | Hauling | Total Cost Material and Labor | Bricks. No. | Cost. | Stone No. Perches. | Cost. | Sand. No. Cubic Yds. | Cost. | Asphalt. No. Square Yds. | Cost. | Labor. | Hauling | Cost. | Total Cost Paving. | Total No. Sq. Feet Paving. | Cost per Sq. Foot. Cts. | Car Fare. | Total Cost Metered Supplies. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5 | 3 | 1 | 1 | 2 | | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | $498 06 | | | | | | | | | | | | | | | $498 06 |
| February | 7 | 3 | 2 | 1 | 1 | | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | 760 80 | | | | | | | | | | | | | | | 760 80 |
| March | 9 | 3 | 1 | 1 | 1 | | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | 641 87 | | | | | | | | | | | | | | | 641 87 |
| April | 3 | | 2 | 7 | 1 | | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | 764 13 | | | | | | | | | | | | $1 13 | 12 | 027 | | | 765 26 |
| May | 2 | 1 | | | 2 | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | 374 39 | | | | | | | | | | | | 2 75 | 105 | 026 | | | 377 14 |
| June | 1 | 2 | | | 4 | 1 | 8 | $777 35 | | 2 | $1 [illegible] | 2,940 | $2,793 | 2,502 | $10 45 | | | $22 27 | | $9 10 | 9 | $61 92 | 8 | $ 96 | 469 | $15 42 | 14 | | $ 53 | $ 45 | $70 33 | $16 59 | 1,047 85 | 26 | $ 20 | 34 | $1 64 | | | | | | | $1 35 | $ 93 | 7 11 | 165 | 043 | $ 50 | 1,055 16 |
| July | 3 | 1 | 1 | 1 | .... | 1 | 7 | 449 40 | | 7 | 6 97 | 335 | 188 | 577 | 9 95 | | 24 81 | | 12 16 | 1 | 28 00 | 1 | 2 10 | 116 | 3 54 | 6 | | 21 | 39 | 71 95 | 16 52 | 601 59 | 20 | 1.5 | | | | | | | 3 10 | 1 86 | 5 41 | 179 | 030 | | 607 00 |
| August | 1 | | | | 1 | | 4 | 134 00 | | 5 | 4 00 | 692 | 1,013 | 460 | 6 69 | | 6 53 | | 10 70 | 5 | 12 64 | 5 | 1 43 | 81 | 2 71 | 15 | | 27 | 32 | 50 97 | 8 09 | 249 47 | | | | | | | | | 11 58 | 2 89 | 14 47 | 172 | 031 | 50 | 261 44 |
| September | | 1 | | 1 | 1 | | 3 | 147 00 | | 1 | 75 | 658 | 658 | 1,395 | 24 76 | | 5 26 | | 6 18 | 5 | 39 36 | 7 | 1 84 | 214 | 8 83 | 8 | | 32 | 50 | 46 56 | 12 52 | 325 26 | | | | | | | | | 7 27 | 1 72 | 8 99 | 309 | 024 | | 334 25 |
| October | 3 | 1 | 3 | 1 | | | 8 | 214 75 | | 1 | 3 20 | 1,418 | 1,901 | 163 | 7 10 | | 2 56 | | 9 14 | 7 | 7 70 | 5 | 1 53 | 110 | 4 54 | 54 | | 22 | 31 | 42 02 | 12 08 | 354 19 | | | | | | | | | 2 75 | 1 32 | 4 07 | 186 | 022 | 90 | 359 16 |
| November | | | 2 | 1 | | | 3 | 101 40 | | 3 | 5 26 | 1,372 | 1,442 | 998 | 16 81 | | 2 36 | | 1 76 | 6 | 15 03 | 3 | 36 | 146 | 6 03 | 9 | | 35 | 65 | 45 12 | 8 56 | 211 24 | | | | | | | | | 10 65 | 2 46 | 13 11 | 347 | 023 | 30 | 254 65 |
| December | 2 | | 1 | | | | 3 | 91 75 | | 1 | 75 | 148 | 221 | 151 | 2 75 | | 3 11 | | 2 68 | 1 | 1 86 | 1 | 12 | 32 | 1 33 | 24 | | 10 | 14 | 15 08 | 1 13 | 126 67 | | | | | | | | | 3 65 | 1 59 | 5 24 | 161 | 033 | 25 | 132 16 |
| Total | 35 | 17 | 13 | 14 | 13 | 2 | 91 | $1,961 85 | | 23 | $22 18 | 7,023 | $8,199 | 6,486 | $108 52 | | $67 23 | | $55 02 | 38 | $169 51 | 31 | $8 64 | 1,168 | $42 10 | 60 | | $2 03 | $2 79 | $342 03 | $78 79 | $2,946 27 | 46 | $ 35 | 34 | $1 63 | | | | | | | $13 65 | $12 77 | $58 10 | 2,099 | 028 | $2 45 | $6,050 25 |

NOTE.—This statement is complete for the last seven months of the year only.
The old system of accounts was in use up to June 1, and did not show cost in detail.

Months	No. Service Connections	Meters: No. of Each Size ⅝ in.	1 in.	1 in.	2 in.	3 in.	4 in.	Total No. Meters	Total Cost Meters	L. Supplies No.	L. Supplies Cost	Meter Boxes No.	Meter Boxes Cost	C Wgt. Lbs.
January	[illegible]	2	2		1	6		13				1		
February	77	3	1		....	8		12						
March	[illegible]	1	[illegible]	1	2	3		[illegible]				8		
April	38	[illegible]	3	1		[illegible]		[illegible]				3		
May	31	2	2	1		1	....	11						
June	28	[illegible]	7	1	[illegible]	7	....	[illegible]	[illegible]			1		[illegible]
July	18	2	1	1	1	7	..	[illegible]	[illegible]			1		[illegible]
August	[illegible]		1			3	...	[illegible]	[illegible] 87			2		[illegible]
September	[illegible]					3	....	[illegible]	[illegible]			1		[illegible]
October	11	3	[illegible]	[illegible]		2	...	[illegible]	[illegible]			3		[illegible]
November	18	1	1	1	1	2	...	1	[illegible]			2		[illegible]
December	[illegible]	2	1	[illegible]		4	1	10	[illegible]					[illegible]
Total	[illegible]	[illegible]	[illegible]	1	[illegible]	51	1	[illegible]	$219 36			[illegible]		[illegible]

Note.—This statement is complete for the last seven months of the year only. The old system of accounts was in use up to June 1, and did not show costs in detail.

COST OF REPAIRS TO ME

MATERIALS AND LABOR

I Pipe	C I Fittings		W I Fittings		Brass Fittings		Valves		Brass Stops	
Cost	Wgt	Cost	Wgt	Cost	Wgt	Cost	No.	Cost	No	Cost
	Lbs		Lbs.		Lbs					
$9 00	54	$6 12		$1 12		$2 82			23	$8 15
10 60	226	5 80		2 44		2 74			15	1 78
11 66	496	8 16		6 20		3 25		$1 66	32	7 93
14 63	520	[illegible]		1 36		12 97		93	21	6 22
16 39	711	12 36		1 44		2 30		6 98	21	5 16
33 16	816	11 07		6 22		6 29		12	6	1 78
7 81	442	7 78		1 17		5 77		1 05	23	9 08
$98 58	3,568	$57 94		$28 85		$34 09		$10 74	141	$43 10

TERS AND SERVICE CONNECTIONS IN 1897.

Stop Boxes.		Lead.		Rope		Fuel	Labor	Hauling	Total Cost Material and Labor	Bricks.	
No	Cost	Wgt	Cost	Wgt.	Cost	Cost	Cost	Cost		No	Cost
		Lbs		Lbs							
									$770 66		
									658 16		
									617 95		
									479 76		
									222 75		
	$ 84	120	$4 72	12	$ 50	$1 14	$219 26	$31 16	327 05	88	$ 68
	24	91	3 66	8	32	61	215 42	22 25	284 15	120	99
	3 73	127	5 10	15	60	1 00	195 68	23 51	274 60	9	06
	3 25	130	5 19	11½	46	83	248 05	21 39	330 13		
	3 90	180	7 17	13	52	1 11	283 00	18 35	379 01		
	3 68	144	17 73	34	1 31	1 66	521 70	37 52	722 07		
	2 62	145	5 79	19½	78	1 57	396 31	58 82	548 11		
	$18 26	1,237	$49 36	113	$4 49	$7 92	$2,079 42	$213 30	$2,865 42	317	$1 73

PAVING.

Stone		Sand		Asphalt.		Labor.	Hauling.					
No. Perches	Cost.	No. Sq. Yards	Cost.	No. Sq. Yards	Cost.	Cost.	Cost.	Total Cost Paving	No. Sq. Ft. Paving	Cost per Sq. Ft. Cts.	Car Fare	Total Cost of Repairs.
								$49 51	1,152	.031		$820 17
								42 18	1,200	.035		700 64
								14 67	[illegible]	.027		632 62
								24 01	906	.026		403 77
								9 67	369	.026		232 12
		11	$5 76			$61 08	$14 68	82 60	2,841	.022	$ 50	440 15
						31 12	7 07	42 18	1,[illegible]	.026	90	327 53
						[illegible] 84	8 [illegible]	44 13	1,935	.023	1 25	320 28
						46 87	12 11	68 98	2,136	.024	95	390 65
						51 04	17 12	68 16	3,298	.021	1 30	448 47
						40 01	11 15	54 19	2,728	.020	90	777 16
				1	$1 13	16 74	17 61	68 48	2,421	.029	45	617 01
		11	$5 76	1	$1 13	$3[illegible] 71	$91 66	$449 02	17,110	.024	$6 25	$6,080 30

Months	Hydrants				Fountains				Valves							
	[illegible]	[illegible]	[illegible]	Cost	[illegible]	[illegible]	[illegible]	Cost	No. Each Size						[illegible]	Cost
									2 in.	[illegible]	[illegible]	[illegible]	[illegible]	20 in.		
[illegible]		[illegible]	[illegible]						[illegible]	[illegible]	[illegible]				11	
[illegible]		8	8						1	1	2				6	
[illegible]		14	11						2	6	10	2			20	
[illegible]		[illegible]	[illegible]						2		2	[illegible]	1		8	
[illegible]		[illegible]	[illegible]						1	1	1				[illegible]	
[illegible]	2		[illegible]	$10[illegible]					[illegible]	1	6	1			11	$91 11
[illegible]									[illegible]		6	1			9	21 89
[illegible]				166 [illegible]			[illegible]	$88 [illegible]	2		8	[illegible]	[illegible]		13	92 83
[illegible]		1	1	[illegible]	1		1	11 1[illegible]	1	1		1			[illegible]	61 22
[illegible]		1	1	13[illegible]					1		2	[illegible]		[illegible]	9	26[illegible]
[illegible]	1		1	[illegible]					1		2		1		[illegible]	38 99
[illegible]	[illegible]	1	[illegible]	88 8[illegible]						[illegible]	1	2			6	47 84
	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	$1[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	2	112	$[illegible]

Note.—[illegible] complete [illegible]

[illegible] not show costs in [illegible]

COST OF HYDRANTS, FO

MATERIAL AND LABOR

C. I. Pipe		C. I. Fittings		Special Castings		Lead		Rope		Fuel
Wgt.	Cost	Wgt.	Cost	Wgt.	Cost	Wgt.	Cost	Wgt.	Cost	Cost.
Lbs.		Lbs.		Lbs.		Lbs.		Lbs.		
5,937	$52 85	1,935	$33 15	397	$7 12	511	$17 19	51	$1 21	$1 70
262	1 24	358	6 16	263	1 11	105	3 44	6	25	30
4,316	20 71	1,915	31 01	221	3 39	478	16 17	30	1 46	1 81
2,440	21 12	2,282	38 46	494	8 16	180	20 61	22	81	1 62
6,127	54 21	3,757	65 58	417	8 12	1,656	59 16	46	1 79	2 98
517	2 27	176	8 18	217	1 44	114	5 93	12	51	70
1,086	9 39	611	10 50	241	1 63	561	15 02	20	77	1 51
20,685	$161 79	11,034	$194 02	2,284	$40 30	3,718	$137 52	187	$6 80	$10 62

UNTAINS AND VALVES INSERTED IN 1897.

Labor	Hauling	Total Cost Material and Labor			PAVING							
					Bricks		Stone		Sand		Asphalt	
Cost	Cost	Hydrants	Fountains	Valves	No	Cost	No. Perches	Cost	No. Cub. Yards	Cost	No. Sq. Yards	Cost
		$859 21		$227 03								
		60 34		83 72								
		951 69		306 67								
		517 55		208 26								
		1 011 39		32 53								
$84 87	$12 36	325 65		111 54	84	$ 40			7	$3 25		
21 33	6 12			68 14	13	32			1	50		
94 77	23 71	287 23	$102 87	152 84								
83 58	15 59	355 07	50 94	36 41								
180 73	32 55	355 93		458 76								
23 09	3 69	32 93		82 71								
33 82	9 32	148 89		72 77	190	1 47						
$522 19	$103 67	$1,505 70	$153 81	$1,012 97	287	$2 19			8	$3 75		

APPENDIX L.

Labor Cost	Hauling Cost	Total Cost Paving	No. Sq. Ft. Paving	Cost per Sq. Ft. Cts.	Cut Fare	Total Cost Repairs: Hydrants	Fountains	Valves
		$10 [illegible]	1,587	[illegible]		$892 22		$2 [illegible]
		21 7[illegible]	611	[illegible]		[illegible]71 [illegible]		[illegible]
		7 [illegible]	278	.02[illegible]		958 33		[illegible]
		29 [illegible]	1,1[illegible]	[illegible]		571 61		[illegible]
		18 [illegible]	[illegible]	[illegible]		1,020 80		[illegible]
$19 19	[illegible]	28 [illegible]	[illegible]	.031	$ [illegible]	348 05		11 [illegible]
[illegible]	[illegible]	1 [illegible]	[illegible]	.033		....		[illegible]
7 10	2 7[illegible]	10 [illegible]	[illegible]	[illegible]	[illegible]	292 06	$1 [illegible]	[illegible]
9 8[illegible]	2 1	11 [illegible]	[illegible]	.023	[illegible]	366 17	[illegible]	[illegible]
1 7[illegible]	1	1 [illegible]	310	.016	1[illegible]	356 08		[illegible]
90	[illegible]	1 [illegible]	90	[illegible]		33 17		[illegible]
1 [illegible]	[illegible]	3 16	[illegible]	.019		152 05		[illegible]
$46 97	$11 8[illegible]	$61 71	2,395	.027	$ 95	$1 [illegible]	[illegible]	$1 [illegible]

Months	Hydrants				Fountains		Valves		C. I. Pipe		C. I. Fi
	No. [illegible]	[illegible]	Total No.	Cost	No.	Cost.	No.	Cost.	Wgt.	Cost	Wgt
									Lbs.		Lbs.
January	20	25	45		7		11				
February	19	15	34		30		22				
March	11	26	37		31		15				
April	16	16	32		17		6			....	
May	19	10	29		15	....	15			....	
June	22	40	62	$30 17	2	$1 06	11	$10 49	100	$1 05	180
July	24	24	48	31 09	8	2 81	13	18 68	78	67	180
August	27	30	57	30 93	15	3 77	39	16 85	683	6 68	288
September	26	31	57	14 85		2 35	37	3 19			62
October	24	26	50	21 94	12	2 16	28	16 09	11	16	
November	19	20	39	13 69	11	3 11	37	4 03	225	5 19	375
December	27	25	52	17 88	31	7 60	50	9 97	20	64	190
Total	250	292	542	$225 93	180	$22 86	306	$111 68	1,117	$17 69	1,275

NOTE.—This statement is complete for the last seven months of the year only.
The old system of accounts was in use up to June 1, and did not show costs

COST OF REPAIRS TO HYDRANTS, FOUNT

MATERIAL AND LABOR

ttings	Special Castings		Lead		Rope		Fuel	Labor	Hauling	Total C
Cost.	Wgt Lbs	Cost	Wgt. Lbs	Cost	Wgt. Lbs.	Cost.	Cost.	Cost.	Cost.	Hydran
										$565
										211
										268
										261
										167
$6 10	131	$2 17	86	$2 80	6	$ 26	$ .38	$179 50	$11 82	152
5 10	65	1 07	61	2 01	3	12	31	111 51	23 10	126
1 95	157	2 68	57	3 01	6	24	31	196 47	12 86	116
1 07	397	6 43						156 87	1 83	85
	67	1 09						157 72	2 91	88
6 45	160	1 74	121	5 13	7	29	53	182 81	7 64	92
3 23	150	1 62						226 53	12 61	105
$21 90	1,100	$16 81	328	$12 97	23	$ 91	$1 56	$1,211 44	$102 77	$799

in detail

AINS AND VALVES IN 1897.

			PAVING									
ost Material and Labor.			Bricks.		Stone		Sand		Asphalt		Labor	Hauling
ts	Fountains	Valves.	No.	Cost	No. Perches	Cost.	No. Cubic Yards	Cost	No. Sq. Yards	Cost.	Cost	Cost
20	$87 92	$175 84					7					
48	186 68	136 84					2					
92	247 19	109 07										
64	110 55	19 62										
27	73 50	78 41										
95	7 29	165 60	142	$1 1				$1 25			$26 74	$6 81
04	21 97	66 46	84	61	1	$1 25		.50			22 27	1 96
96	21 32	130 49	28	22							36 54	9 61
72	26 12	78 15				.38					22 19	6 29
82	30 59	85 96									18 85	7 54
56	73 79	61 89	32	26							16 50	11 78
64	15 80	128 04	15	12	1	1 25	2	.50			21 56	6 96
69	$227 18	$719 63	301	$2 31	2	$2 88	9	$2 25			$164 65	$[illegible] 77

Total Cost Paving	No. Sq. Ft. Paving	[illegible] Cts.	[illegible]	Total Cost Repairs Hydrants	 Fountains	 Valves.
$10 11	423	.024		$[illegible]73 10	$87 9[illegible]	$177 7[illegible]
10 19	297	.034		219 90	188 [illegible]8	136 84
21 36	[illegible]	.027		287 18	247 18	112 15
10 28	388	.027		272 [illegible]	110 59	52 00
[illegible]	189	.026		171 28	71 49	78 41
[illegible] 96	9[illegible]6	.010	$ 30	167 73	7 90	186 53
29 56	1,224	.024	1	118 29	22 00	73 80
16 57	1,781	.02[illegible]	8[illegible]	167 44	27 80	150 75
28 86	1,252	.024	25	94 28	29 19	96 91
26 19	910	.028	1[illegible]	86 90	30 07	114 95
28 57	1,195	.024	2[illegible]	98 16	76 08	85 47
30 39	924	.034		120 [illegible]	12 57	146 78
$2[illegible] 90	8,272	[illegible]/10	$2 2[illegible]	$2,108 16	$[illegible]71 57	$1,412 42

| Month. | MATERIAL AND LABOR. | | | | PAVING. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Materials. Cost. | Labor. Cost. | Hauling. Cost. | Total Cost Material and Labor. | Materials. Cost. | Labor. Cost. | Hauling. Cost. | Total Cost Paving. | No. Sq. Ft. Paving. | Cost per Sq. Ft. Cents. | Car Fare. | Total Cost Work. |
| January | | | | $2,235 68 | | | | $32 45 | 1,245 | .026 | | $2,268 13 |
| February | | | | 1,324 86 | | | | 52 81 | 1,492 | .035 | | 1,377 67 |
| March | | | | 727 25 | | | | 11 71 | 430 | .027 | | 738 96 |
| April | | | | 951 05 | | | | 8 24 | 311 | .026 | | 959 29 |
| May | | | | 917 79 | | | | 27 27 | 1,041 | .026 | | 945 06 |
| June | | $1,101 20 | $25 40 | 1,126 60 | $3 52 | $18 96 | $6 27 | 28 75 | 1,455 | .019 | $28 20 | 1,183 55 |
| July | | 985 91 | 37 75 | 1,023 66 | 23 | 39 30 | 11 96 | 51 49 | 720 | .071 | 27 40 | 1,102 55 |
| August | $176 48 | 759 70 | 44 48 | 980 66 | | 63 00 | 21 14 | 84 14 | 2,606 | .032 | 33 50 | 1,098 30 |
| September | 94 | 681 54 | 49 41 | 731 89 | 7 25 | 26 18 | 5 89 | 39 32 | 512 | .070 | 20 00 | 791 21 |
| October | 1 46 | 699 54 | 22 45 | 723 45 | | 19 82 | 3 80 | 23 62 | 722 | .032 | 26 85 | 773 92 |
| November | 59 39 | 683 39 | 26 77 | 769 55 | | 14 85 | 1 31 | 16 16 | 283 | .050 | 35 00 | 816 71 |
| December | 32 69 | 1,054 96 | 18 03 | 1,105 68 | | 5 30 | 1 82 | 7 12 | 299 | .024 | 55 15 | 1,167 95 |
| Totals | $270 96 | $5,966 24 | $224 29 | $6,461 49 | $11 00 | $187 41 | $52 19 | $250 60 | 6,597 | .038 | $222 10 | $13,223 30 |

Note.—This statement is complete for the last seven months of the year only.
The old system of accounts was in use up to June 1, and did not show cost in detail.

ENGINEERING DIVISION.

| MONTH. | Books, Stationery and Printing. | | Light and Fuel. | | Salaries. | | Drawing Materials. | | Office Furniture and Fixtures. | | Sundries. | | Total For Division. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts. | Disbursements. | Receipts. | Disbursements. | Receipts. | Disbursements. | Receipts. | Disbursements. | Receipts. | Disbursements. | Receipts. | Disbursements. | Receipts. | Disbursements. |
| January | | | | | | | | | | | | | | |
| February | | | | | | | | | | | | | | |
| March | | | | | | | | | | | | | | |
| April | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | |
| June | $1 98 | $15 11 | | | | $1,403 98 | | | | $20 00 | | $17 87 | $1 98 | $1,456 96 |
| July | 1 94 | 1 60 | | | | 1,439 98 | | $64 21 | | | | 235 36 | 1 94 | 1,741 15 |
| August | | 68 29 | | $13 00 | | 1,449 98 | | 13 49 | | | | 130 96 | | 1,675 72 |
| September | 23 00 | 40 61 | | | | 1,449 98 | | 38 80 | | 98 00 | | 58 96 | 23 00 | 1,686 35 |
| October | 20 05 | 52 05 | | | | 1,449 98 | | 26 12 | | | | 181 43 | 20 05 | 1,709 58 |
| November | | | | | | 1,427 98 | | 52 37 | | | | 41 91 | | 1,522 26 |
| December | | 9 00 | | | | 1,449 98 | | 17 71 | | 46 76 | | 49 66 | | 1,573 11 |
| Total for each item | $46 97 | $186 66 | | $13 00 | | $10,071 86 | | $212 70 | | $164 76 | | $716 15 | $46 97 | $11,365 13 |
| Difference | | $139 69 | | | | $10,071 86 | | $212 70 | | $164 76 | | $716 15 | | $11,318 16 |

# STATEMENT OF RECEIPTS AND DISBURSEMENTS IN 1897—Continued.



COUNTY DIVISION

| SUBDIVISION | Months | Books, Stationery, Printing, Rec | Books, Stationery, Printing, Dis | Light, Fuel Rec | Light, Fuel Dis | Salaries Rec | Salaries Dis | Drawing Materials Rec | Drawing Materials Dis | Office Furniture and Fixtures Rec | Office Furniture and Fixtures Dis | Cast Iron Pipe Rec | Cast Iron Pipe Dis | Special Iron Castings Rec | Special Iron Castings Dis | Special Brass Castings Rec | Special Brass Castings Dis | Pipe Fittings Rec | Pipe Fittings Dis | Lead Rec | Lead Dis | Wood and Coke Rec | Wood and Coke Dis | Lumber Rec | Lumber Dis | Rope and Packing Rec | Rope and Packing Dis | Tools and Machinery Rec | Tools and Machinery Dis | Bricks, Stone, Cement Rec | Bricks, Stone, Cement Dis | Sand, Ashes Gravel Rec | Sand, Ashes Gravel Dis | Hauling Rec | Hauling Dis | W. I. Pipe and Fittings Rec | W. I. Pipe and Fittings Dis | Waste and Oil Rec | Waste and Oil Dis | Feed Rec | Feed Dis | Scrap Rec | Scrap Dis | Sundries Rec | Sundries Dis | Estimates Rec | Estimates Dis | General Expenses Rec | General Expenses Dis | Total Receipts and Disbursements Rec | Total Receipts and Disbursements Dis | Totals Cost Division and Sub-division |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAKE MONTELLO | Jan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Feb... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mar... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | April | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | June | | | | | $334 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | $20 15 | $45 20 | $11 80 | | | $2 00 | | $4 16 | | $ 60 2 | | $491 10 | | |
| | July | | | $126 90 | | 152 68 | | | | | | | | | | | | | | | | | | | | | | $2 75 | | | | | | | | | | | | 11 76 | 2 00 | | | | | | | | 177 1 | | |
| | Aug | | | 19 61 | | 156 31 | | | | | | | | | | | | | | | | | | | | 21 | | | | | | | | | | | | | | 36 53 | 11 00 | $7 82 | | | | | | | 1 60 | 11 55 | 369 2 | | |
| | Sept | | | | | 158 55 | | | | | | | | | | | | | | | | | | | | | | 05 | | | | | | | | | | | | 1 60 | | | | | | | | | 1 60 | 11 55 | 340 2 | | |
| | Oct | | $3 85 | $18 80 | | 218 69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 25 00 | | | | | | | | | 2 00 | | 8 55 | | 57 10 | | |
| | Nov | | | | | 189 48 | | | | | | | | | | | | | | | | | | | | | | 10 00 | | | | | | | | | | 18 37 | 13 00 | | | | | | | | 1 60 | 13 80 | 221 19 | | |
| | Dec | | | | | 189 99 | | | | | | | | | | $56 40 | | | | | | | | | | $1 01 | | 10 00 | | | | | | | | | | 11 65 | | | | | | | | | 1 60 | 14 00 | 241 38 | | |
| Total Subdiv | | | $3 85 | $18 80 | | $1,990 90 | | | | | | | | | | $56 40 | | | | | | | | | | $1 01 | | $12 75 | | | | | | | | | | $20 15 | $45 20 | $11 80 | | | $2 00 | | $4 16 | | $ 60 2 | | $1,212 87 | $2,103 10 | |
| Difference | | | $3 85 | | $127 71 | $1,990 90 | | | | | | | | | | $56 40 | | | | | | | | | | $1 01 | | $12 75 | | | | | | | | | | $16 52 | $34 43 | | $7 82 | | $2 00 | | $4 16 | | $ 60 2 | | $1,212 87 | $2,181 27 | $2,181 27 |
| LAKE CLIFTON | Jan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Feb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | April | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | June | | | | | $248 08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | $3 85 | | | | $4 85 | | | |
| | July | | | | | 189 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Aug | | | $29 36 | | 190 56 | | | | | | | | | | | | | | | | | | | | | | $ 50 | | | | $56 50 | | | | $ 54 | | $ 10 | | | | | | $1 82 | | $1 01 | | 140 29 | | |
| | Sept | | | | | 186 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 34 | | | | | | | | 1 10 | | 87 18 | | |
| | Oct | | $3 80 | | | 204 67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 10 | | 14 06 | | |
| | Nov | | | | | 145 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 84 | | | | | | | | 16 75 | | 22 71 | | |
| | Dec | | | | | 129 12 | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | 38 | | | | | | | | 60 | | 129 90 | | |
| Total Subdiv | | | $3 80 | | $29 36 | $1,293 11 | | | | | | | | | | | | | | | | | | | | | | $1 00 | | | | $56 50 | | | | $ 54 | | $5 96 | | | | | | $2 42 | | $1 27 | | $1,127 96 | | |
| Difference | | | $3 80 | | $29 36 | $1,293 11 | | | | | | | | | | | | | | | | | | | | | | $1 00 | | | | $56 50 | | | | $ 54 | | $5 96 | | | | | | $2 42 | | $1 27 | | $1,127 96 | $1,127 96 | |
| MT. ROYAL NO. 2 | Jan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Feb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | April | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | June | | | | | $40 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | $ 90 | | | | $4 00 | | | |
| | July | | | | | 84 1 | | | | | | $11 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 94 1 | | | |
| | Aug | | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 73 00 | | | |
| | Sept | | | | | 86 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 87 60 | | | |
| | Oct | | $3 80 | | | 90 61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 70 00 | | 94 41 | | |
| | Nov | | | | $9 80 | 46 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 47 00 | | 93 60 | | |
| | Dec | | | | | 46 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 47 00 | | 93 45 | | |
| Total Subdiv | | | $3 80 | | $9 80 | $487 25 | | | | | | $11 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | $ 90 | | $4 00 | | | | $2 80 | | $ 90 | | $ 90 | | |
| Difference | | | $3 80 | | $9 80 | $487 25 | | | | | | $11 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | $ 90 | | $4 00 | | | | $2 80 | | $ 90 | $ 90 | $517 46 |
| PRIDE INN | Jan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Feb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | April | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | June | | | | | $103 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | July | | | | | 117 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Aug | | | $19 60 | | 107 70 | | | | | | $2 11 | | | | | | | | | | | | | | | | $2 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sept | | | | | 93 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Oct | | $3 80 | | | 92 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nov | | | | | 81 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dec | | | | | 86 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Subdiv | | | $3 80 | | $19 60 | $871 20 | | | | | | $2 11 | | | | | | | | | | | | | | | | $2 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| Difference | | | $3 80 | | $19 60 | $871 20 | | | | | | $2 11 | | | | | | | | | | | | | | | | $2 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| SUTHERLAND | Jan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Feb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | April | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | June | | | | | $18 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | July | | | | | 11 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Aug | | | | | 26 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sept | | | | | 26 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Oct | | $3 80 | | | 26 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nov | | | | | 26 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dec | | | | | 26 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Subdiv | | | $3 80 | | | $212 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Difference | | | $3 80 | | | $212 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |

# STATEMENT OF RECEIPTS AND DISBURSEMENTS IN 1897.—Continued.

CONSTRUCTION DIVISION.

| | Books, Stationery, Printing | Light, Fuel | Stable | Dressing Materials | Office Furniture and Fixtures | Coal | Iron, Cast Scrap | Steel Brass Cast Scrap | Pipe Fittings | Lead | Wood and Coke | Lumber | Rope and Packing | Tools and Machinery | Bricks Stone Cement | Sand Gravel Ashes | Hauling | W. I. Pipe and Fittings | Waste and Oil | Feed | Scrap | Hydrants Fountains and Valves | Meters | Sundries | General Expenses | Total Receipts and Disbursements | Total Cost Division 97 | Total Cost Division 96 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | Rec. Dis. | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

MECHANICAL DIVISION

WESTERN PUMPING STATION.

| Months | Books, Stationery, Printing | | Light, Fuel | | Salaries | | Dry Goods, Mdse. | | Office Furniture and Utensils | | Cast Iron Pipe | | Special Iron Castings | | Sundry Iron Castings | | Pipe Fittings | | Lead | | Wood and Coke | | Leather | | Repairs and Tools | | Tools and Machinery | | Stores | | Coal | | Horses | | Wagons and Carts | | Feed | | Straw | | Hydrants, Boxes and Valves | | Meters | | Fixtures | | Sundries | | Total Receipts and Disbursements | | Total Cost, Division and Subdivision |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis | Rec | Dis |
| Jan. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feb. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| April | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| July | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sept. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oct. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nov. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feb. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| April | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| July | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sept. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oct. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nov. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feb. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| April | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| July | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sept. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oct. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nov. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## AUDITING DIVISION.

| MONTH. | Books, Stationery and Printing. | | Light and Fuel. | | Salaries. | | Drawing Materials. | | Office Furniture Fixtures. | | Sundries. | | Total For Division. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Receipts. | Disbursements. | Receipts. | Disbursements. | Receipts. | Disbursements. | Receipts. | Disbursements. | Receipts. | Disbursements. | Receipts. | Disbursements. | Receipts. | Disbursements. |
| January | | | | | | | | | | | | | | |
| February | | | | | | | | | | | | | | |
| March | | | | | | | | | | | | | | |
| April | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | |
| June | | | | | | $279 50 | | | | $70 00 | | $5 40 | | $354 90 |
| July | | $212 85 | | | | 325 00 | | | | | | | | 537 85 |
| August | | 169 82 | | | | 325 00 | | | | | | 3 00 | | 497 82 |
| September | | 105 77 | | | | 325 00 | | | | | | 50 | | 431 27 |
| October | $188 62 | 86 21 | | | | 325 00 | | | | | | 3 00 | $188 62 | 414 21 |
| November | 32 61 | 150 55 | | | | 335 00 | | | | | | 4 00 | 32 61 | 489 55 |
| December | 26 58 | 2 00 | | | | 335 00 | | | | | | 12 25 | 26 58 | 349 25 |
| Total for each item | $247 81 | $727 20 | | | | $2,249 50 | | | | $70 00 | | $28 15 | $247 81 | $3,074 85 |
| Difference | | $479 39 | | | | $2,249 50 | | | | $70 00 | | $28 15 | | $2,827 04 |

Note.—This statement is complete for the last seven months of the year only.
The old system of accounts was in use up to June 1, and did not show receipts and disbursements in detail.

# SUMMARY OF DISBURSEMENTS AND RECEIPTS FOR 1897.

DISBURSEMENTS.

| ITEMS. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Books, Stationery and Printing | $35 98 | $65 14 | $140 54 | $88 20 | $192 65 | $31 10 | $263 62 | $217 80 | $120 42 | $127 43 | $291 73 | $111 49 | $1,689 10 |
| Drawing Materials | | 15 91 | | | | 44 12 | 26 64 | 7 56 | | 13 37 | 6 36 | 17 71 | 131 67 |
| Office Furniture and Fixtures | | | | 66 65 | 396 00 | 70 00 | | 4 50 | 98 00 | 4 50 | | 35 20 | 674 85 |
| Light and Fuel | 527 58 | 236 28 | 1,324 73 | 1,073 53 | 11 09 | 15 35 | 317 51 | 3,551 26 | 643 47 | 173 23 | 518 57 | 166 49 | 8,559 09 |
| Salaries | 2,954 84 | 2,923 83 | 3,726 98 | 4,230 92 | 4,728 60 | 5,040 80 | 5,392 88 | 5,575 67 | 5,625 08 | 5,815 20 | 5,951 06 | 5,571 81 | 57,537 67 |
| Labor | 10,036 74 | 6,014 38 | 9,340 14 | 8,237 69 | 11,950 57 | 19,129 47 | 17,348 86 | 18,719 08 | 19,273 15 | 25,883 24 | 18,522 41 | 26,179 88 | 190,635 61 |
| Hauling | 216 22 | 49 21 | 148 09 | 346 01 | 374 93 | 788 48 | 842 42 | 761 27 | 1,209 81 | 1,412 47 | 1,143 77 | 835 55 | 8,128 23 |
| Mt. Royal Pumping Station | | | | 50,000 00 | | 554 72 | 8,194 79 | | 13,780 32 | 8,572 33 | | 10,196 24 | 91,298 40 |
| Pumps and Boilers | | | | | | 27,000 00 | 9,000 00 | | 22,500 00 | 12,150 00 | 14,490 00 | | 85,140 00 |
| Tools and Machinery | 232 40 | 43 16 | 475 95 | 17,451 69 | 1,016 19 | 4,408 37 | 1,254 81 | 1,304 41 | 250 72 | 2,710 91 | 105 09 | 3,355 33 | 32,609 03 |
| Cast Iron Pipe | | | 10,261 74 | 24,207 50 | 28,595 42 | 23,827 55 | 36,259 13 | 34,586 66 | 44,529 55 | 41,981 83 | 41,720 55 | 23,387 19 | 309,357 12 |
| Large Pipe Fittings | | | | 41 00 | 932 83 | 392 95 | 597 03 | 3,405 20 | 1,703 71 | 1,822 19 | 1,844 00 | 1,143 31 | 11,882 22 |
| Special Iron Castings | 569 17 | 1,181 02 | 1,227 08 | 1,270 46 | 1,209 66 | 2,291 14 | 2,211 31 | 1,517 75 | 2,366 21 | 1,211 20 | 2,011 11 | 891 07 | 20,957 18 |
| Valves | | | | | 2,991 25 | 4,500 42 | 2,743 71 | 2,326 04 | 1,362 88 | 1,661 53 | 2,372 04 | 957 11 | 18,914 98 |
| Wrought Iron Pipe and Fittings | 133 11 | 97 33 | 99 80 | 121 72 | 229 35 | | 80 29 | 95 96 | 49 20 | 22 82 | 108 28 | 81 20 | 1,119 06 |
| Brass Castings | 440 90 | 335 98 | 1,288 72 | 608 31 | 618 04 | 541 51 | 729 29 | 1,284 14 | 874 03 | 164 97 | 846 61 | 1,481 91 | 9,214 41 |
| Bar Iron and Steel | 83 45 | | 72 80 | | | 57 43 | 132 76 | 3 06 | 83 28 | 115 83 | 135 00 | 52 68 | 736 29 |
| Meters | 65 00 | 80 00 | 1,320 05 | 991 60 | | 542 37 | 25 | 25 | | 120 10 | 880 11 | 21 48 | 4,024 51 |
| Lead | 1,474 88 | | 14 75 | 1,664 58 | 4,816 46 | 2,782 04 | | 1,065 45 | 12,859 44 | 1,356 63 | 33 93 | 11,272 50 | 37,340 66 |
| Lumber | 85 48 | 209 73 | 270 64 | 221 21 | 289 92 | 210 44 | 928 94 | 625 82 | 467 15 | 21 89 | 1,896 45 | 8 00 | 5,244 67 |
| Rope and Packing | 37 84 | 58 85 | 18 90 | 136 25 | 8 55 | 111 34 | 282 43 | 5 00 | 171 52 | 93 75 | | | 924 43 |
| Waste and Oil | 45 74 | 64 91 | 21 95 | 64 78 | 126 20 | 107 28 | 129 08 | 86 30 | 88 01 | 84 92 | 85 33 | 108 83 | 1,013 33 |
| Rubber | 98 00 | 217 86 | 165 78 | | 42 13 | | 133 58 | 273 96 | 96 61 | 223 65 | 116 53 | 7 05 | 1,375 15 |
| Bricks, Stone and Cement | 16 65 | 19 50 | 15 00 | 200 00 | 76 92 | 160 85 | 1,267 87 | 154 65 | 261 08 | 99 65 | 310 33 | 154 47 | 2,736 97 |
| Sand, Gravel and Ashes | | 102 33 | 78 76 | 76 64 | 42 09 | 39 70 | 50 | 99 88 | 74 60 | 46 15 | 97 60 | 24 00 | 682 25 |
| Asphalt Paving | 27 34 | | | | 304 79 | | | 2,515 91 | 538 20 | 75 51 | 645 96 | 1,040 88 | 5,148 59 |
| Feed | | 23 10 | 24 18 | 10 30 | 19 00 | 17 33 | | 25 90 | 13 00 | | 11 50 | 15 45 | 159 96 |
| Current Expenses | 147 20 | 125 70 | 72 74 | 144 32 | 84 40 | 3,566 42 | 259 28 | 331 14 | 189 00 | 221 61 | 53 00 | 28 38 | 5,226 19 |
| Miscellaneous | 527 18 | 955 32 | 772 55 | 398 70 | 481 30 | 1,569 52 | 1,539 62 | 696 22 | 3,553 95 | 896 08 | 1,907 22 | 1,561 83 | 11,859 49 |
| Total | $17,755 70 | $12,819 54 | $30,890 87 | $111,652 66 | $59,538 34 | $97,800 70 | $89,936 60 | $82,240 81 | $132,782 39 | $107,086 29 | $96,107 54 | $88,710 04 | $927,320 91 |

| DIVISION. | ITEMS. | RECEIPTS. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Total. |
| CONSTRCTN. | New Services Inserted | $705 74 | $972 00 | $2,416 52 | $2,706 00 | $2,190 00 | $2,286 00 | $2,095 21 | $2,586 00 | $3,276 00 | $2,370 00 | $3,574 31 | $1,460 13 | $26,637 91 |
| | Metered Supplies Inserted | | 68 35 | 269 85 | 395 64 | 197 43 | 227 57 | 621 10 | 1,115 00 | 421 91 | 499 74 | 274 18 | 337 52 | 4,428 29 |
| | Repairs | 18 06 | 140 83 | 451 41 | 503 49 | 233 26 | 293 21 | 423 41 | 336 23 | 358 91 | 739 13 | 227 65 | 558 10 | 4,283 69 |
| | Sand, etc | | | | 2 35 | | | | | | 28 10 | 51 35 | 4 20 | 86 00 |
| | Total | $723 80 | $1,181 18 | $3,137 78 | $3,607 48 | $2,620 69 | $2,806 78 | $3,139 72 | $4,037 23 | $4,056 82 | $3,636 97 | $4,127 49 | $2,359 95 | $35,435 89 |
| MECHANICAL. | Scrap | $34 00 | | $463 09 | $8 14 | $302 27 | $175 69 | | $247 00 | | | | | $1,230 19 |
| | Old Brass | 38 43 | | | 57 42 | | | | | $220 90 | | | | 316 75 |
| | Pipe and Castings | 74 55 | $6 66 | | | | | | 103 05 | 45 18 | $ 65 | $5 00 | $7 18 | 242 27 |
| | Coal | | | | | | | | 126 84 | 19 60 | 9 80 | 9 80 | 9 60 | 175 64 |
| | Miscellaneous | 8 95 | 50 | | | 5 50 | | | | | 1 25 | 6 33 | | 22 53 |
| | Total | $155 93 | $7 16 | $463 09 | $65 56 | $307 77 | $175 69 | | $476 89 | $285 68 | $11 70 | $21 13 | $16 78 | $1,987 38 |
| COUNTY. | Hay, Fodder, etc | | $47 59 | $129 94 | $91 67 | $121 11 | $40 42 | | $43 25 | $45 30 | $71 30 | $32 38 | $132 19 | $755 15 |
| | Horses, Mules, Wagons and Harness | | 18 20 | | | | | | 35 00 | 19 00 | | 5 00 | | 77 20 |
| | Wood | | | 3 00 | | | | | | | | | 4 00 | 7 00 |
| | Sand | | | 4 00 | 7 20 | | | | 4 90 | 16 00 | | | 34 20 | 66 30 |
| | Ice | | | | | | | | | | | | | |
| | Rent | | | | 19 00 | 22 00 | 14 00 | | 20 00 | 13 00 | 17 00 | 9 00 | 9 00 | 123 00 |
| | Total | | $65 79 | $136 94 | $117 97 | $143 11 | $54 42 | | $103 15 | $93 30 | $88 30 | $46 38 | $179 39 | $1,028 65 |
| | Grand Total | $879 73 | $1,254 13 | $3,737 81 | $3,790 91 | $3,071 57 | $3,036 89 | $3,139 72 | $4,617 27 | $4,435 80 | $3,736 97 | $4,195 00 | $2,556 12 | $38,451 92 |

# STATEMENT OF EXPENDITURES FOR 1897.



## CHARGED TO $2,000,000 00 LOAN

| Months | Books, Stationery, Printing | Drawing Materials. | Office Furniture and Fixtures. | Light and Fuel | Salaries. | Labor. | Hauling | Mt. Royal Pumping Station | Pumps and Boilers. | Tools and Machinery. | Cast Iron Pipe | Large Pipe Fittings. | Special Iron Castings. | Valves. | W. I. Pipe and Fittings. | Brass Castings. | Bar Iron and Steel. | Lead | Lumber | Rope and Packing. | Waste and Oil. | Rubber | Bricks Stone and Cement | Sand, Gravel and Ashes | Asphalt Paving | Current Expenses | Miscellaneous. | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | | | | $5 10 | $166 66 | $3,658 49 | $173 41 | | | $87 10 | | | $303 06 | | | | | $15 14 | $912 50 | $52 89 | $30 00 | | $10 50 | $9 25 | | | | |
| February | | $10 61 | | 67 50 | 166 66 | 225 10 | | | | | | | 142 64 | | | | | | | 75 90 | 21 66 | | | | | | $81 70 | $ 98 77 | $5,608 17 |
| March | $57 68 | | | 10 00 | 351 07 | 1,190 81 | 85 11 | | | 161 50 | $10,261 74 | | 491 37 | | | | | 18 45 | | | 5 00 | | | | | 98 70 | 105 78 | 1,567 65 |
| April | | | | 56 46 | 316 82 | 3,140 22 | 306 15 | $50,000 00 | | 89 78 | 24,207 50 | $11 00 | 1,219 70 | | | | | | 1,515 27 | 195 46 | 130 65 | $1 70 | | | | | 58 45 | 12,711 91 |
| May | 13 77 | | $316 50 | 11 09 | 775 49 | 7,003 13 | 374 93 | | | 276 58 | 28,595 42 | 932 83 | 1,209 66 | $2,991 25 | $64 52 | $200 23 | | | 1,816 16 | 205 35 | 8 55 | 2 10 | 19 01 | 71 86 | 12 09 | $300 10 | 57 73 | 90 19 | 48,140 17 |
| June | | 11 12 | | 15 35 | 1,159 49 | 13,522 26 | 788 48 | 551 72 | $27,000 00 | 3,799 79 | 23,827 55 | 392 95 | 2,107 74 | 1,500 12 | | 46 48 | 12 69 | 2,782 04 | 210 44 | 14 37 | 1 88 | | | 150 85 | 39 70 | | 3,112 11 | 691 25 | 85,115 00 |
| July | 11 60 | | | 19 79 | 2,026 81 | 12,473 36 | 842 02 | 8,191 79 | 9,000 00 | 612 61 | 36,259 13 | 597 03 | 2,136 81 | 2,713 71 | 18 73 | 474 77 | 98 03 | | 890 14 | 210 93 | 11 20 | | | 132 72 | 50 | | 11 80 | 1,096 34 | 78,240 95 |
| August | | | | 294 91 | 1,989 15 | 14,401 88 | 761 27 | | | 784 70 | 33,973 77 | 3,105 20 | 1,895 10 | 2,326 04 | | 804 17 | | 961 80 | 625 82 | | | 56 20 | 154 65 | 22 10 | 2,515 91 | 5 27 | 178 90 | 67,967 71 |
| September | | | | 61 00 | 1,911 65 | 15,832 25 | 1,209 81 | 13,780 32 | 22,500 00 | 86 28 | 44,529 55 | 1,703 71 | 2,361 36 | 1,362 88 | | 188 19 | 83 28 | 12,859 44 | 167 15 | 161 50 | | 10 77 | 232 68 | 22 60 | 538 20 | | 2,288 57 | 122,500 19 |
| October | | | | 123 58 | 2,212 99 | 21,293 21 | 1,412 17 | 8,572 33 | 12,150 00 | 1,114 90 | 41,981 83 | 1,822 19 | 1,192 20 | 1,661 53 | | 38 57 | 115 83 | 1,356 63 | | 60 00 | | | 93 75 | 16 15 | 75 54 | | 955 35 | 96,009 22 |
| November | 95 52 | | | 113 47 | 2,739 79 | 11,707 89 | 1,143 77 | | 14,490 00 | 18 39 | 41,720 55 | 1,814 00 | 1,185 59 | 2,372 01 | 20 00 | 204 93 | 135 00 | | 1,896 15 | | | 115 52 | 287 84 | 75 20 | 615 96 | 16 00 | 1,455 73 | 85,345 63 |
| December | | | | 101 39 | 2,601 83 | 20,082 10 | 835 55 | 10,196 24 | | 1,078 77 | 23,387 19 | 1,143 31 | 816 69 | 957 11 | 50 87 | 716 50 | 52 68 | 11,272 50 | | | | | 135 72 | 24 00 | 1,010 88 | | 964 86 | 77,491 49 |
| Total | $208 57 | $54 73 | $316 50 | $915 91 | $16,161 11 | $127,531 60 | $7,933 50 | $91,298 40 | $85,140 00 | $8,170 70 | $308,744 23 | $11,882 22 | $17,895 25 | $18,911 98 | $184 12 | $2,974 14 | $561 10 | $36,176 61 | $1,619 90 | $615 66 | $19 78 | $212 03 | $1,579 11 | $119 93 | $6,116 56 | $3,758 11 | $8,007 10 | $760,132 01 |

## CHARGED TO WATER BOARD ACCOUNT

| Months | Books, Stationery, Printing. | Drawing Materials. | Office Furniture and Fixtures. | Light and Fuel | Salaries. | Labor. | Hauling | Tools and Machinery. | Cast Iron Pipe | Large Pipe Fittings. | Special Iron Castings. | Valves | W. I. Pipe and Fittings. | Brass Castings. | Bar Iron and Steel | Meters | Lead | Lumber. | Rope and Packing. | Waste and Oil. | Rubber | Bricks, Stone and Cement | Sand, Gravel and Ashes | Asphalt Paving | Feed | Current Expenses | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | $35 98 | | | $522 18 | $2,788 18 | $6,378 25 | $42 81 | $115 00 | | | $266 11 | | $133 11 | $140 90 | $68 31 | $65 00 | $562 38 | $ 32 59 | $ 7 81 | $15 74 | $87 70 | $ 7 10 | | $27 31 | | $62 40 | $128 11 | $12,117 65 |
| February | 65 14 | $5 30 | | 168 78 | 2,757 17 | 5,788 98 | 49 21 | 13 16 | | | 738 38 | | 97 33 | 335 98 | | 80 00 | | 133 83 | 37 19 | 61 91 | 217 86 | 19 50 | $10 13 | | $23 10 | 27 00 | 819 54 | 11,372 49 |
| March | 82 86 | | | 1,311 73 | 3,372 91 | 8,149 33 | 62 95 | 314 15 | | | 735 71 | | 99 80 | 1,288 72 | 51 35 | 1,320 05 | 14 75 | 279 64 | 13 90 | 21 95 | 165 78 | 15 00 | 58 01 | | 24 18 | 72 74 | 711 12 | 18 174 95 |
| April | 88 20 | | $66 65 | 1,017 07 | 3,914 10 | 5,097 17 | 39 56 | 17,361 91 | | | 50 76 | | 121 72 | 608 34 | | 991 60 | 149 31 | 25 75 | 5 60 | 60 18 | | 200 00 | 12 30 | | 10 30 | 72 82 | 57 99 | 29,204 96 |
| May | 118 88 | | 49 50 | | 3,953 11 | 1,917 14 | | 739 61 | | | | | 164 83 | 417 81 | | | | 84 57 | | 123 80 | 23 09 | 5 00 | | 1 60 | 19 00 | 26 67 | 390 11 | 11,097 87 |
| June | 31 10 | | 70 00 | | 3,881 31 | 5,607 21 | | 608 58 | | | 183 10 | | | 495 03 | 14 74 | 542 37 | | | 96 97 | 105 10 | | | | 17 33 | 154 01 | 878 25 | 12,685 70 |
| July | 252 02 | 26 61 | | 267 72 | 3,366 07 | 4,875 50 | 10 | 612 20 | | | 74 17 | | 31 56 | 254 52 | 34 73 | 25 | | 38 50 | 71 50 | 117 88 | 133 58 | 835 35 | | | | 247 18 | 119 28 | 11 |
| August | 217 80 | 7 56 | 1 50 | 3,256 35 | 3,576 52 | 4,317 20 | | 519 71 | $612 89 | | 122 35 | | 95 96 | 179 67 | 3 06 | 25 | 103 65 | | 7 00 | 86 30 | 217 56 | | 79 18 | | 25 90 | 302 87 | 217 32 | 15 |
| September | 120 12 | | 98 00 | 579 17 | 3,713 43 | 3,140 90 | | 161 14 | | | 1 85 | | 19 20 | 385 84 | | | | 21 89 | 7 02 | 88 01 | 85 81 | 28 10 | 52 00 | | 13 60 | 189 00 | 1,265 38 | 1 |
| October | 127 13 | 13 37 | 4 50 | 19 65 | 3,572 21 | 4,590 03 | | 1,596 01 | | | 19 00 | | 22 82 | 126 10 | | 120 40 | | | 33 75 | 84 92 | 223 | 5 00 | | | 224 61 | 10 | 1 |
| November | 199 21 | 6 36 | | 375 10 | 3,211 27 | 3,814 52 | | 56 70 | | | 825 52 | | 88 28 | 611 68 | | 880 11 | 33 93 | 8 00 | | 85 33 | 1 64 | 22 50 | 22 10 | | 11 40 | 57 00 | 141 49 | 10 |
| December | 111 49 | 17 71 | 35 20 | 62 10 | 2,969 98 | 6,097 18 | | 2,276 56 | | | 14 38 | | 30 33 | 765 11 | | 24 18 | | | | 108 83 | 7 65 | 18 75 | | | 15 15 | 28 38 | 96 97 | 13,218 55 |
| Total | $1,480 53 | $76 94 | $328 35 | $7,613 15 | $41,076 26 | $63,104 01 | $194 93 | $24,138 33 | $612 89 | | $3,061 93 | | $934 94 | $6,240 27 | $175 19 | $4,024 51 | $861 02 | $621 77 | $278 77 | $993 55 | $1,163 12 | $1,157 86 | $202 32 | $32 05 | $1,89 76 | $1,468 08 | | |

# STATEMENT OF COST

HYDRAN

[illegible]

# OF WORK DONE AT GAY STREE

NEW WORK

MILLED STRAINERS

[illegible]

No. and Cost of Each Size

[illegible]

# T SHOPS IN 1897

| [illegible] | [illegible] | Wrought [illegible] | [illegible] | [illegible] | Meter [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

| REPAIR WORK | | | | | | MISCELL | | |
|---|---|---|---|---|---|---|---|---|
| [illegible] | Motors | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | | [illegible] | [illegible] | [illegible] | [illegible] | |

## APPENDIX M

## ANEOUS WORK

[illegible]

## COMPARATIVE STATEMENT OF COST OF PUMPING AND DUTY OF PUMPING ENGINES IN 1896 AND 1897.

Cost of Pumping and Duty of Pumps are Figured on Standard of N. E. Water Works Association. APPENDIX N.

| Year. | Pumping Station. | Pump No. | Salaries. | Fuel. | Waste and Oil. | Repairs. | Total Cost. | Total No. Gallons Pumped. | Cost in Cts. Per 1,000 Gals. | No. Pounds Coal Used. | Duty Per 100 Lbs Coal. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1896. | Western | 46 | | | | | | 22,536,010 | | | |
| | | 90 | | | | | | 22,597,212 | | | |
| | Total for Western | | $311 49 | $281 94 | $14 32 | $19 65 | $627 40 | 45,133,222 | 1.39 | 159,880 | 33,168,115 |
| | Eastern | 595 | | | | | | 459,255,496 | | | |
| | | 839 | | | | | | 2,423,363,708 | | | |
| | Total for Eastern | | $7,234 09 | $7,036 34 | $692 65 | $116 80 | $15,129 88 | 2,882,619,204 | .525 | 6,509,181 | 76,453,491 |
| | Total for Both Stations | | $7,545 58 | $7,318 28 | $706 97 | $136 45 | $15,757 28 | 2,927,752,426 | | 6,669,061 | |
| 1897. | Western | 46 | | | | | | 97,839,328 | | | |
| | | 90 | | | | | | 102,387,977 | | | |
| | Total for Western | | $867 21 | $1,100 68 | $122 06 | $99 91 | $2,189 86 | 200,227,305 | 1.094 | 624,300 | 40,497,754 |
| | Eastern | 595 | | | | | | 428,104,704 | | 5,067,461 | 96,814,823 |
| | | 839 | | | | | | 2,513,240,334 | | | |
| | | 1,207 | | | | | | 135,379,376 | | 165,874 | 136,135,711 |
| | Total for Eastern | | $5,306 20 | $5,385 43 | $649 35 | * $2,539 32 | $13,880 30 | 3,076,724,414 | .451 | 5,233,335 | 98,063,210 |
| | Total for Both Stations | | $6,173 41 | $6,486 11 | $771 41 | $2,639 23 | $16,070 16 | 3,276,951,719 | | 5,857,635 | |

* Includes boiler insurance, $250.

# MAIN CONNECTIONS.



## MATERIAL AND LABOR.

| Period of Year | Class | Diameter | Length in Feet | Straight Pipe | | Large Fittings | | Small Fittings | | Special Fittings | | Valves | | Hydrants | | Fountains | | Lead | | Rope | | Fuel | Lumber | | Bricks | | Cement | | Miscellaneous | Labor | Hauling | Total Cost Labor and Material |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lbs | Cost. | Lbs. | Cost | Lbs | Cost | Lbs | Cost. | No. | Cost. | No | Cost | No | Cost | Lbs. | Cost. | Lbs. | Cost | Cost. | F'm Feet | Cost | No. | Cost. | Bbl. | Cost. | Cost | Cost. | Cost. | |
| From January 1 1897, to June 1, 1897 | A | 36" | 198 | | | | | | | | | | | | | | | | | | | | | | | | | | | | $ 98 55 |
| | A | 12" | 162 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 248 83 |
| | A | 6" | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 45 93 |
| | A | 36" | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 431 25 |
| | A | 12" | 24 | 374 | $ 3 21 | | | 97 | $ 1 67 | 133 | $ 2 15 | 2 | $11 38 | | | | | 87 | $ 3 25 | 2 | $ 08 | $ 0 13 | | | | | | | $11 26 | $3 06 | $ 39 19 | |
| | A | 6" | 35 | 718 | 6 17 | | | 218 | 3 74 | 177 | 2 87 | 2 | 16 12 | | | | | 300 | 11 28 | 6 | 23 | 13 | 8 | $0 12 | | | | | 34 10 | 7 82 | 113 18 | |
| From June 1, 1897 to December 31, 1897. | A | 6" | 25 | 1 663 | 8 95 | | | 1,359 | 23 34 | 137 | 7 08 | 3 | 30 65 | | | | | 281 | 10 55 | 5 | 19 | 74 | | | | | | | 54 75 | 9 17 | 115 68 | |
| | B | 6" | 86 | 3,485 | 30 16 | 500 | $ 8 75 | 1,499 | 25 72 | | | 2 | 35 70 | | | | | 371 | 13 95 | 23 | 88 | 1 24 | | | | | | | 51 14 | 8 88 | 176 50 | |
| | B | 12" | 37 | 3,583 | 31 05 | 513 | 8 98 | | | 140 | 2 26 | 1 | 1.7 56 | | | | | 814 | 30 61 | 12 | 45 | 1 20 | 266 | 3 99 | | | | | 97 01 | 8 25 | 321 28 | |
| | A | 30" | 75 | 10,201 | 318 17 | 29,076 | 508 8 | 166 | 8 12 | 2,789 | 15 18 | 2 | 688 71 | | | | | 5,956 | 225 94 | 66 | 2 15 | 20 33 | 41,827 | 627 41 | 11,300 | $73 35 | 21 | $27 60 | 9 35 | 1,902 09 | 202 96 | 1,718 16 | |
| Total | | | 282 | 19,396 | $427 67 | 30,089 | $526 6 | 3,629 | $62 59 | 3,676 | $59 54 | 12 | $953 34 | | | | | 7,809 | $293 58 | 113 | $4 28 | $24 07 | 42,101 | $631 52 | 11,300 | $73 35 | 24 | $27 60 | $9 13 | $2,180 32 | $240 11 | $5,514 29 | |

## PAVING.

| Period of Year | Bricks. | | Stone | | Sand | | Asphalt | | Labor. | Hauling. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No. | Cost. | Cubic Yds. | Cost | Cubic Yds | Cost | Sq. Yds | Cost. | Cost. | Cost. | Total Cost of Paving. | Sq. Feet of Paving. | Car Fare | Total Cost of Connections |
| From January 1 1897, to June 1, 1897 | | | | | | | | | | | | | | $ 98 55 |
| | | | | | | | | | | | | | | 248 83 |
| | | | | | | | | | | | | | | 45 93 |
| | | | | | | | | | | | | | | 431 25 |
| | | | | | 12 | | | | $ 3 21 | $1 35 | $ 4 56 | 117 | $0 15 | 43 88 |
| From June 1, 1897 to December 31, 1897. | | | | | | | | | 7 35 | 1 74 | 9 09 | 345 | 20 | 122 17 |
| | | | | | | | | | | | | | | 145 68 |
| | | | | | | | | | | | | | 05 | 176 55 |
| | | | 1 | | 5 | | | | 9 89 | 3 33 | 13 22 | 186 | | 334 50 |
| Total | | | 28 | | 32 | 60 | | | 82 78 | 42 54 | 125 91 | 3,642 | 3 45 | 1,817 82 |
| | | | 29 | | 39 | 60 | | | $103 23 | $48 93 | $152 76 | 1,600 | $3 85 | $5,670 90 |

NOTE.—This statement is correct for the last seven months of the year only.
The old system of accounts being used up to June 1 and did not show cost in detail.

| Month. | Jones Falls Supply. | | | Gunpowder Supply. | | | | |
|---|---|---|---|---|---|---|---|---|
| | Lake Roland. | Hampden Reservoir. | Druid Lake. | Mt. Royal Reservoir. | Loch Raven. | Lake Montebello. | Lake Clifton. | Guilford Reservoir. |
| January | 1.90 | 1.94 | 1.94 | 1.50 | 2.14 | 1.67 | 1.54 | 1.40 |
| February | 5.35 | 6.92 | 5.36 | 5.47 | 6.35 | 5.73 | 5.91 | 5.29 |
| March | 2.48 | 3.05 | 2.38 | 2.36 | 2.42 | 2.32 | 2.63 | 2.20 |
| April | 2.12 | 2.53 | 3.26 | 2.15 | 4.51 | 3.42 | 2.73 | 2.79 |
| May | 6.61 | 6.49 | 7.14 | 7.02 | 6.70 | 6.46 | 6.99 | 6.19 |
| June | 1.87 | 2.25 | 2.49 | 2.28 | 1.52 | 2.37 | 2.68 | 1.64 |
| July | 7.35 | 6.77 | 7.73 | 7.45 | 7.92 | 6.77 | 6.91 | 6.10 |
| August | 4.48 | 4.51 | 4.70 | 4.99 | 5.09 | 6.96 | 5.82 | 4.50 |
| September | 1.55 | 2.17 | 2.17 | 2.15 | 2.30 | 1.66 | 1.71 | 1.75 |
| October | 3.10 | 4.08 | 3.80 | 4.28 | 3.70 | 3.76 | 3.39 | 3.84 |
| November | 5.35 | 5.63 | 5.27 | 5.08 | 5.80 | 5.08 | 4.94 | 5.55 |
| December | 3.50 | 3.80 | 3.62 | 3.26 | 3.95 | 3.23 | 3.43 | 3.53 |
| Total | 45.66 | 50.14 | 49.86 | 47.99 | 52.40 | 49.43 | 48.68 | 44.78 |

NORTHERN BOUNDARY LINE OF CITY

EASTERN BOUNDARY LINE

WESTERN BOUNDARY LINE

GOLD SPRING LANE

GREENMOUNT RESERVOIR

HAMPDEN

WAVERLY

HOMESTEAD

LAKE MONTEBELLO

LAKE MONTEGO

DRUID HILL PARK

DRUID LAKE

HIGH SERVICE RESERVOIR

OLD RESERVOIR

WALBROOK

CALVERTON

BALTIMORE CEMETERY

GREENMOUNT CEMETERY

PATTERSON

PATT AVE

REISTERSTOWN PIKE

GARRISON

LIBERTY ROAD

EDMONDSON AVENUE

JONES FALLS

CATHEDRAL

NORTH AVENUE

LAFAYETTE AVENUE

MADISON STREET

CENTRE STREET

MONUMENT

MULBERRY

FAYETTE

BALTIMORE

FREDERICK AVENUE

PRESTON STREET

GEORGE ST

FRANKLIN

SARATOGA

LEXINGTON

CHASE

EASTER

READ STREET

GAY STREET

FRONT STREET

HOWARD STREET

CHARLES STREET

CALVERT STREET

PARK AVENUE

DOLPHIN

BOLTON

WYNNE

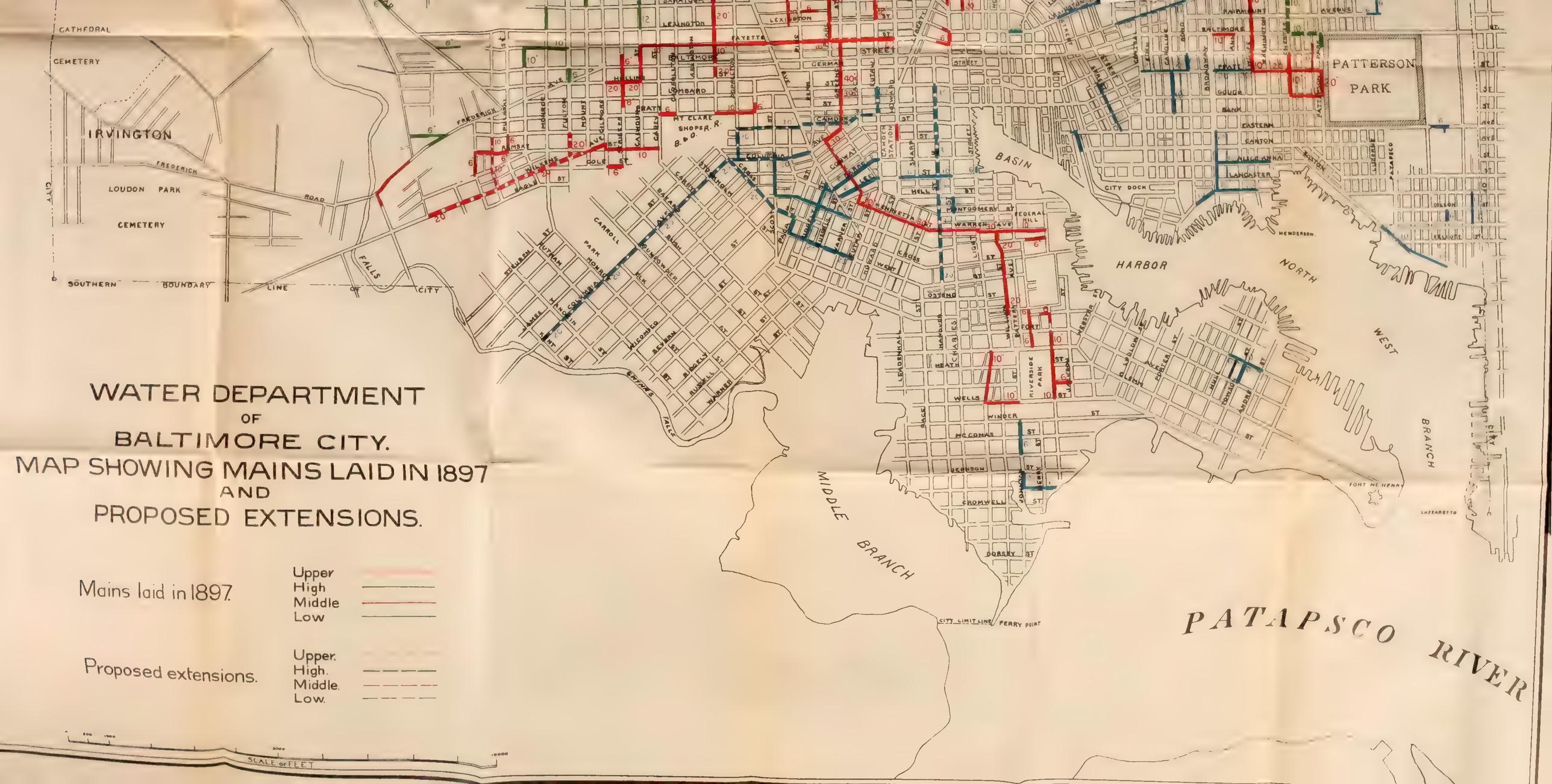
BARCLAY

ASHLAND

ORLEANS

FAIRMOUNT

JOHNS HOPKINS HOSPITAL


WATER DEPARTMENT
OF
BALTIMORE CITY.
MAP SHOWING MAINS LAID IN 1897
AND
PROPOSED EXTENSIONS.
Mains laid in 1897.
Upper
High
Middle
Low
Proposed extensions.
Upper.
High.
Middle.
Low.
SCALE OF FEET
PATAPSCO RIVER
PATTERSON PARK
IRVINGTON
CATHEDRAL CEMETERY
LOUDON PARK CEMETERY
SOUTHERN BOUNDARY LINE OF CITY
FALLS ROAD
BASIN
HARBOR
NORTH BRANCH
WEST BRANCH
MIDDLE BRANCH
CITY LIMIT LINE
PERRY POINT
FORT MC HENRY
LAZZARETTO
CITY DOCK
MT CLARE SHOPS
B. & O. R. R.
CAMDEN STATION
PRATT ST
LEXINGTON ST
FAYETTE ST
BALTIMORE ST
GERMAN ST
CAMDEN ST
HILL ST
MONTGOMERY ST
WARREN AVE
FEDERAL HILL
WELLS ST
WINDER ST
McCOMAS ST
CROMWELL ST
DORSEY ST
RIVERSIDE PARK
CARROLL PARK
EUTAW PLACE
CARLTON AVE
BOUNDARY AVE
FREDERICK AVE
PENNSYLVANIA AVE
LANCASTER ST
ALISKANNA ST
EASTERN AVE
ORLEANS ST
MADISON ST
GAY ST
LIGHT ST
CHARLES ST
HOWARD ST
EUTAW ST
PACA ST
SHARP ST
HANOVER ST
CHARLES ST
LIBERTY ST
GREENE ST
PARK AVE
MONUMENT ST
CALVERT ST
EXETER ST
GUILFORD AVE
HOLLINS ST
GILMOR ST
FULTON AVE
MOUNT ST
PAYSON ST
RAMSAY ST
WILKENS AVE
HOLE ST
GAINOR ST
CATON AVE
ROSEDALE ST
WASHINGTON BLVD
STRICKER ST
STOCKTON ST
FULTON ST
SCHROEDER ST
HUTTON ST
STURGES ST
WOODYEAR ST
BAKER ST
FORREST ST
RUSSELL ST
WARNER ST
WILKENS AVE
MONROE ST
COLUMBIA AVE
HANOVER ST
CHARLES ST
LIGHT ST
PACA ST
HOWARD ST
EUTAW ST
GREENE ST
PARK AVE
MONUMENT ST
CALVERT ST
EXETER ST
GUILFORD AVE
HOLLINS ST
GILMOR ST
FULTON AVE
MOUNT ST
PAYSON ST
RAMSAY ST
WILKENS AVE
HOLE ST
GAINOR ST
CATON AVE
ROSEDALE ST
WASHINGTON BLVD
STRICKER ST
STOCKTON ST
FULTON ST
SCHROEDER ST
HUTTON ST
STURGES ST
WOODYEAR ST
BAKER ST
FORREST ST
RUSSELL ST
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# ANNUAL REPORT

—— OF THE ——

# CITY LIBRARIAN

—— TO THE ——

## Mayor and City Council of Baltimore,

—— FOR THE ——

FISCAL YEAR ENDING DECEMBER 31st, 1897.

# REPORT.

CITY LIBRARY,

BALTIMORE, December 31, 1897.

*To the Honorable the Mayor and City Council of Baltimore:*

GENTLEMEN: In submitting the following report of the Library for the year 1897, it must be borne in mind that inasmuch as the present Librarian has been in office barely a year, (since November 25, 1896), all improvements, changes and additions have been made in this short time, with less help than ever before, while the results have only been accomplished by persistent effort, and for a great part by working before and after office hours. Much remains to be done, but simply because time and the working force has not been sufficient.

As stated in his report for 1896, the ten rooms of the City Library were found to be in exceedingly bad order, in fact in a condition which might almost be termed chaotic.

In the two rooms on the third floor, which are used as offices, all the books (about 3,000) have been gone over, labeled, numbered, and duplicates weeded out. The shelves were so crowded that no books could be added, while many were on the floor; but by getting rid of duplicates and furnishing an extra case, room was provided for some time to come. A large number of original papers found in these rooms have been collected and placed in a desk where they may be accessible and secured from loss. The sets of files of Ordinances and Resolutions, from 1797 to the present day; the Journals of both Branches of the City Council; the decisions of the Court of Appeals; the Mayors' Messages and Reports; the Acts of the Legislature, as well as the various Department Reports, were all found defective. These have since been made complete.

There had been no system of double entry bookkeeping in the Library prior to January 1, 1897. Double entry accounts were opened with the various Departments of the City Government, with the result that not one complaint against the Library has been received from any official, while a vast amount of friction between the Library and the different contractors has been avoided. This will be the more appreciated when it is stated that the requisitions from the departments, orders on contractors, and invoices during the year amount to thousands.

A card catalogue has been made of the maps and plats belonging to the city. This has been exceedingly useful, not only to the Librarian, but also to many persons, (lawyers, conveyancers, real estate agents, heads of departments and others,) who have had occasion to use it. It has saved consulting a bulky index, and shows at a glance all the work done on one piece of city property by bringing it together on a single card. A copy of this catalogue has been made by the Commissioners for Opening Streets, and a third copy is being made for another department.

The method of caring for returned Council papers seems to be especially bad. These for six or seven years back are filed in two large cases containing 192 drawers, with a book index, while the thousands of papers are filed away with no marks on papers or in the index to show in which box or drawer they may be found. The papers of the session of 1895–6 (about 3,000) have been placed to themselves, and the boxes marked and numbered so as to show in which box it is to be found and its order in the box, while the index is numbered to correspond. The papers of 1896–7 will be treated in the same way, and no difficulty is experienced in finding any paper when needed. This has been exceedingly useful to the officials of both Branches as well as to the members. If we are to judge from the letter books of previous years, as well as amounts expended for postage, much more correspondence has been thrown on the Library than ever before. The "Report of the Electrical Subway Commission" and the "Report of the Sewerage Commission," numbering nearly 3,500 volumes, have been deposited in the Library for distribution. The call for these, as

well as other city publications, is large, and on the increase. The great number of communications from the Mayor's office has also added to the work of the Librarians.

When the Commission to draft a new Charter was appointed by the Mayor, in order to facilitate progress the Librarian offered his services and the resources of the Library to the Commission. These were at once accepted, and the Librarians have succeeded in furnishing the members and the Secretary with all the publications of the city and State, as well as writing to nearly twenty other cities to secure additional data, besides collecting much other information asked for by the Commission. The thanks of the Commission have been tendered for the efforts which have been put forth to aid them.

A complete index to the Ordinances and Resolutions from 1797 to 1897 has been started and good progress made; but, pending the result of the Charter Commission, has been suspended. This was highly approved by His Honor ex-Mayor Hooper, all the legal staff of the city, the judges of the courts and many attorneys and councilmen.

On the floor above the offices are to be found rooms Nos. 1 to 8. Room No. 3 was filled with a miscellaneous lot of forms, books, paper and rubbish. This has been cleaned out, the paper and books distributed and the key handed to the Mayor.

Rooms Nos. 5 and 6 contain the surplus copies of the Ordinances and Resolutions, journals of both Branches, Mayors' Messages and reports of Commissions appointed from time to time, as well as miscellaneous publications and duplicates. These two rooms were found in a condition which may be described as "horrible;" the books and pamphlets were piled indiscriminately in heaps on the floor and shelves, so that it was impossible to find anything without a long and very dirty search. Additional shelving has been put in No. 5, and this room is now in perfect order, while No. 6 has been cleaned up and put in fairly good shape. As soon as possible after the first of the year this room will be put in as good condition as No. 5.

Rooms Nos. 1, 3, 4 and 8 contain the papers and the retired books of the Water Department, Register, Comptroller, Health

Department and Mayor. The Librarian is the custodian of these rooms and keeps the keys in his office.

The largest room of all, known as No. 7 (back of the First Branch gallery), containing all the retired books of the City Collector, Chief Engineer of the Water Department and of all other departments not otherwise mentioned; also the tax bills, city codes, general stock, files of newspapers, etc., was in nearly as bad a condition as Nos. 5 and 6. This room has also been cleaned up, a large amount of extra shelving put in and the lockers containing books and papers furnished with cards indicating contents. In this room have been placed the schedules (about 100,000) of the Assessors of Real and Personal Property and all books and papers of the Boards of Control and Review in the recent new assessment. The total amount expended for shelving, labor, etc., has been less than $125. About half a million old tax bills found in this room were made up into pads at small cost and are being furnished to the different departments as required, thereby affecting a considerable saving in paper and blank books.

Besides these rooms there is on the fourth floor the Plat Room. This was also in confusion, but it is now in as good shape as possible, the plats in most cases having been renumbered in India ink and the two tattered index books replaced with new ones. The Librarian would most earnestly recommend that the contents of this room be brought down to the third floor, and thus be made more accessible to the many who have used it so frequently during the year. A better arrangement for keeping the plats is also desirable. The Librarian would also recommend that all the old papers, such as City Commissioner's returns, Council papers, etc., stored in the upper rooms, be overhauled and put in good shape and catalogued in some way. An application will be made to the Council for additional help to do this.

There were twenty-five applicants for proposals for supplying the several city departments with blank books, stationery and printed matter for the year 1898. The following firms were bidders: J. W. Bond Company and W. J. C. Dulany Company, all other bidders having withdrawn. These bids were subsequently

rejected, and the City Librarian was directed to advertise for new proposals. As this was not done until after the first of the year, the result cannot be given in this report.

On December 31, 1895, according to the Report of the Librarian, there were in the library in round numbers a total of 30,000 volumes—manuscript records, bound books and printed matter. In 1896 were added 2,000 and in 1897 were added 3,500 volumes. There were issued in these years 4,000 volumes, leaving about 30,500 volumes of all kinds. During the year 338 visitors have registered their names.

There have been given out 1,335 orders on contractors, while the city officials have made 807 requisitions for supplies, the cost of which will be found in an annexed statement.

The change of administration, as well as the new assessment, have placed a great deal of extra work on the Library, in addition to which the unusually large calls on the Librarians for information and search have increased their duties.

The services of Mr. J. Cushing Bailey, the Assistant Librarian, have been invaluable. The fact that he was here nearly a year prior to the coming of the present Librarian, together with his knowledge of details, have rendered his work of especial importance. It has been the constant aim of the Librarian to make the Library as useful as possible, not only to city officials, but to all who consult it.

## PUBLICATIONS RECEIVED DURING THE YEAR.

### FOREIGN PUBLICATIONS.

*Austria, City of Prague.*—Statistische Commission, 1895. Wohnverhaeltnisse, 1895.

*France, City of Paris.*—Conseil Munic. Proces Verbaux, 1890.

*Germany, City of Berlin.*—Bericht des Magistrats, 1894–5, 1895–96.

*South America, City of Montevideo.*—Health Reports.

*Scotland, Edinburgh, J. Grant.*—Charlotte Corday, by R. Vallantine.

GOVERNMENT PUBLICATIONS.

Chief Engineer, United States Army, Annual Reports, 1896, six volumes.

United States Commissioners of Education, 1894–5, vol. 2. Annual Reports 1895–6.

Libraries in the United States.

Commissioner of Labor, Tenth Annual Report, 1894, vol. 2. 1895–6, Bulletin 7–13.

Commercial Relations United States, 1895–6.

Interstate Commerce Commission, 9th Report, 1896.

*National Civil Service Reform Association.*—Encouragements and Warnings, by Hon. C. Schurz; Reports of Executive Committee, 1897; Proceedings Annual Meeting, 1896.

*Smithsonian Institute.*—International Exposition List.

*United States State Department.*—Review of World's Commerce, 1895–6; Consular Reports, vol. No. 53, No. 195 to vol. 54, No. 205; Index, LV. 206, 207.

STATE PUBLICATIONS.

*Maryland Bureau of Industrial Statictics.*—5th Annual Report for 1896; Reports of Comptroller, 1862, 1892, 1895; Land Office Laws, 1871; House of Refuge, Annual Report, 1896; Insurance Commissioner's Annual Report for 1895, 1896 and 1897; Mt. Hope Retreat, 44th Annual Report, 1896; Maryland State Library, Laws of Maryland, 1850, 1852, 1853, 1854, 1856, 1858, 1860, 1861, 1861–62, 1862, 1864, 1865, 1866, 1867, 1872, 1874, 1876, 1878, 1880, 1882, 1884; Gill's Reports, vol. 4; Maryland Reports, 1 and 33, 35, 45, 73, 75, 82 (two copies), 83 (two copies), 34 (three copies); House Journals, 1894–1896; Catalogue of State Library.

*Appeal Tax Court.*—New Assessment Papers and Books; 9 Boxes Schedules, First Ward; 7 Boxes Schedules, Second Ward; 5 Boxes Schedules, Third Ward; 5 Boxes Schedules, Fourth Ward; 4 Boxes Schedules, Fifth Ward; 5 Boxes Schedules, Sixth Ward; 5 Boxes Schedules, Seventh Ward; 9 Boxes Schedules, Eighth Ward; 7 Boxes Schedules, Ninth Ward; 5 Boxes

Schedules, Tenth Ward; 5 Boxes Schedules, Eleventh Ward; 9 Boxes Schedules, Twelfth Ward; 4 Boxes Schedules, Thirteenth Ward; 9 Boxes Schedules, Fourteenth Ward; 3 Boxes Schedules, Fifteenth Ward; 3 Boxes Schedules, Sixteenth Ward; 5 Boxes Schedules, Seventeenth Ward; 6 Boxes Schedules, Eighteenth Ward; 9 Boxes Schedules, Nineteenth Ward; 9 Boxes Schedules, Twentieth Ward; 9 Boxes Schedules, Twenty-first Ward; 9 Boxes Schedules, Twenty-second Ward; 7 Boxes Appeals. 4 Small Field Books. 4 Boxes Blank Schedules and other papers. 1 Box Miscellaneous Stationery. 1 Box Maps. 198 Precinct Books. 14 Appeal Dockets.

*From Chief Engineer Water Department.*—Five copies Annual Report Water Department 1877, 1 copy 1878, 27 copies 1879, 2 copies 1880, 4 copies 1882, 11 copies 1883, 7 copies 1884, 5 copies 1886, 29 copies 1887, 15 copies 1888, 5 copies 1889, 6 copies 1890, 32 copies 1891, 3 copies 1892, 16 copies 1893, 25 copies 1894, 9 copies 1895; 5 copies Report to Water Board by Sam'l M. Gray, 1896; 2 copies Statutes and Ordinances, Water Department, 1877, (Mayer); 10 copies Statutes and Ordinances, Water Department, (Sams); 1 copy Baltimore City Code, 1879; 1 copy Supplement to Code, 1885; 1 copy Laws of Maryland, 1849–50; 1 copy Mayor's Message and Reports, 1895; 1 copy each Ordinances and Resolutions, 1853–54, '79, 1885–1886; 1 copy U. S. Army Regulations, 1881; 60 copies Report Electrical Subway Commission, cloth; 314 copies Report Electrical Subway Commission, paper.

*From City Collector.*—67 vols. Bailiff's Cash Books; City Directories, 1876–1884.

*From City Commissioner.*—40 copies Annual Report, 1895.

*From City Comptroller.*—Street Books and Plats, viz.: Eighth street opening, Northwest street to Elgin avenue; Elgin avenue opening, Ninth street to Seventh street; Clifton avenue opening, Ninth street to Fourth street; Myrtle avenue opening, Slingluff avenue to Ninth street; Northwest street opening, Seventh street to Ninth street; Seventh street opening, Northwest street to Morris avenue; Whitelock street opening, Linden avenue to

North avenue; Alluvion street, from Ridgely street to Warner street; Madison street opening, from Patterson Park avenue to Grove alley; Windsor avenue opening, from Fourth to Ninth street; Court House lane, closing; Forrest street, opening; ten-foot alley (McKim street); Birckhead street, closing, Charles street to Patapsco street; 1 plat of Patterson Park; 1 plat of Richmond Market; 3 plats of City Block; 1 list of property condemned for Richmond Market; Annual Report for 1896, 4 copies; 100 Miscellaneous Reports, City Departments.

*From City Register.*—10 Ledgers, 1875–93; 1 Ledger Five Per Cent. City Stock, 1885; 1 Ledger Six Per Cent. City Stock, 1884; 1 Ledger Six Per Cent. Water Stock; 3 Petty Cash Books, 1886–91; 2 Cash Books, 1889–90; 1 Journal, 1876; 1 Book City Interest, 1878–80; 1 Journal Six Per Cent. Water Stock, 1875; 1 Ledger Valley R. R. Loan, 1886; 1 Journal Five Per Cent. City Stock, 1884; 1 Journal Court House Stock, 1835–55; 1 Ledger Court House Stock, 1835–71; 1 Bundle Daily Balances, 1896; Engrossed Ordinances and Resolutions, 1896–97.

*From Electrical Subway Commission.*—Package containing Contracts and Specifications; Subway Ordinances; Home Telephone Ordinances; miscellaneous papers; 1 package containing Reports of Inspectors employed during construction of the Subways; 5 files bills; 1 package letters and bills; 6 files letters; 1 package miscellaneous papers; 1 statement book; 1 package statement and receipts; 2 account books; 1 voucher book; 2 warrant stub books; 2 minute books; 1 memorandum book; 1 order book; 3 letter books; 1 account book, poles and wires; 1 package containing statement of cement tests; Cable Inspector's Reports; 2 man-hole order books; inventories, statements, etc.; measurements conduits and cables; 3 field books; overhead wires, etc.; blue prints for contracts; miscellaneous papers; 374 reports.

*From Fire Commissioners.*—Annual Reports, 1896.

*From Mayor's Office.*—1 copy each Journal First Branch, 1870–71, 1871–72, 1872–73, 1873–74, 1888–89, 1887–88, 1889–90, 1890–91, 1891–92, 1892–93, 1893–94, 1894–95, 1895–96; Second Branch

Journals, 1870–71, 1884–85, 1888–89, 1890–91, 1891–92, 1892–93, 1893–94, 1894–95, 1895–96; First Branch, 1875, 1876, 1877, 1887–88, 1887, 1886, 1885, 1884, 1878, 1879, 1880, 1882, 1883; Second Branch, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1887–88; Mayor's Message, 1870–79, 1880–89, 1890–94; Report of Sinking Fund, 1895; 1 book Minutes Board of Trustees Permanent Exposition; 1 letter book, November 29, 1892, to April 29, 1893; 1 letter book, November 21, 1895, to February 12, 1896; 1 package bonds city officers; 1 package bills, 1896; 1 Report on City Property; 1 package papers relating to Western Maryland R. R. investigation, 1892–93; 1 plat, proposed extension of Eutaw Place; 1 plat Mt. Royal avenue and Bolton Property; 1 plat Bolton property; 1 plat flooded district, June, 1885, and February, 1886; 1 plat Calvert Station and new Bolton yard; 1 bundle miscellaneous plats and tracings; 1 bundle Mayor's correspondence (F. C. Latrobe); 1 Stenographer's Transcript, Investigation Commission, 1895; 1 Stenographer's Transcript, Investigation Commission, May, 1895; 1 bundle drawings New Court House; Certificates and General Returns of Elections, 1895.

*From Sewerage Commission.*—1,786 copies Report Sewerage Commission, 1897.

*From Street Cleaning Department.*—Vouchers, records, payrolls, etc., 1889–96.

*From Water Department.*—2 Delinquent Cash Books, 1889; 5 Delinquent Cash Books, 1890; 6 Delinquent Cash Books, 1891; 4 Delinquent Cash Books, 1892; 6 Delinquent Cash Books, 1893; 5 Delinquent Cash Books, 1894; 4 Ledgers, 1889; 4 Ledgers, 1890; 5 Ledgers, 1891; 5 Ledgers, 1892; 2 Ledgers, 1893; 1 Plumbing Cash Book (January, 1890, to May, 1893); 1 New Supplies, January 7, 1876, to August, 1880; 1 Meter Ledger, September, 1880, to January, 1884; 1 Meter Ledger, No. 3, 1884 to September, 1888; 1 Meter Ledger, No. 4, 1884 to September, 1888; 1 Notice to Delinquents, 1883; 1886, 1889; 9 Inspection Stub Books; 1 each City Directories, 1890 to 1893; 70 copies Annual Reports, 1864-93; Mayors' Messages and Reports, 1875,

1890, 1895; Baltimore City Code, 1869; Laws of Maryland, 1885; Supplement to Code, 1885; Ordinances and Resolutions, 1849, 1850, 1851, 1852, 1853, 1854–55, 1856, 1856–57; (Rev. Ord., 1858), 1858–59, 1860–61, 1862, 1864, 1865, 1867, 1872; Directory of Guaranteed Lawyers; Annual Report of 1865, 49 copies; of 1876, 10 copies; of 1870, 16 copies; of 1877, 265 copies; of 1878, 7 copies; of 1879, 4 copies; of 1882, 7 copies; of 1884, 4 copies; of 1886, 3 copies; of 1887, 8 copies; of 1889, 2 copies; of 1891, 14 copies; of 1892, 6 copies; 1877, Statutes and Ordinances, 19 copies; 40 Ledgers, eight (8) for each year, 1880–84.

*From City Printer.*—200 bound copies Ordinances and Resolutions, 1896–97.

*From A. S. Abell.*—Sun Almanac, 1897, 4 copies.

*The American Jewess.*—Odd numbers.

*From Ault & Co.*—150 copies Mayor's Message and Reports; 50 copies same, morocco.

*From Baltimore Chamber of Commerce.*—Forty-second Annual Report, 1896.

*From Baltimore and Ohio R. R. Co.*—Report Relief Department, 1896.

*Book Reviews.*—Odd numbers.

*California, San Francisco.*—Annual Reports, 1895–96.

*Colorado, Denver.*—Report Department of Finance, 1895.

*Connecticut, New Haven.*—City Year Book, 1896. Hartford, Municipal Register, 1895–96.

*Delaware, Newark.*—Annual Reports, 1896.

*District of Columbia.*—Report of Commissioner, 1896; Report of Comptroller, 1872.

*Enoch Pratt Free Library.*—Eleventh Annual Report, 1896; Finding List, December, 1897.

*Fisher, R. D.*—An account of the Battle of North Point (newspaper clipping).

*Georgia, Savannah.*—Reports of 1896.

*Society for the History of the Germans in Maryland.*—Annual Reports, 1–6; 1887–92, and vol. 7.

*Indiana, Indianapolis.*—Annual Reports, 1896.

*Johns Hopkins University.*—University Circulars, vol. 16, No. 128 to 131; College Work, 1897–98; Twenty-first Annual Report, 1886; City Passenger Railways of Philadelphia, 1896–97; Register.

*Kentucky, Louisville.*—Municipal Reports, 1896.

"Land of Sunshine," odd numbers.

*Louisiana, New Orleans.*—Comptroller's Report, 1859.

McCarty's Annual Statistician, 1886.

McCormick, C. H. "Inventors."

*Maine, Portland.*—Report 1895–6 and 1896–7.

Maryland Institute, Annual Report, 1897–98.

*Massachusetts, Boston.*—Auditor's Report, 1895–96, 1896–97; History of City Hall; Fourth National Sanitary Convention, 1860; Annual Reports Collecting Department, 1895; Boston Public Library, Revised Ordinances of Boston, 1892. Cambridge: Annual Report School Commission, 1896. Gloucester: Reports, 1896. Lynn: City Documents, 1896. City of Newton: City Documents, 1895. Salem: City Documents, 1896.

*Michigan.*—Twenty-second Annual Report State Board of Health; Proceedings Annual Conference Health Officers; Abstract of Proceedings, January 8, '97; Thirty-third Annual Report, 1897; Comptroller's Report, 1875, 1876, 1879, 1896. Detroit: Reports, 1895–6. Grand Rapids: Proceedings Council, 1896; Annual Reports, 1896.

*Minnesota, St. Paul.*—Annual Reports, 1896.

*Missouri, St Louis.*—Annual Report City Auditor, 1895; Annual Report City Comptroller, 1895–96; Mayor's Message, 1874–1896; Laws and Ordinances, 1856; Public Free Library, Annual Report, 1896.

*Nebraska, Omaha.*—Municipal Reports, 1895.

*New Hampshire, Manchester.*—Report Public Library.

New York, City of Brooklyn, Mayor's Message 1896 and 1897; Comptroller's Report, 1860.

*City of New York.*—Report of Comptroller, 1855–57–59–94–95.

New York University, Catalogue 1896–97.

*Ohio, Columbus.*—Annual Reports, 1875, 1876, 1877, 1878.

Cincinnati: Auditor's Reports, 1860; Annual Reports, 1895. Cleveland: Annual Reports, 1896.

*Oregon, Portland.*—Municipal Reports, 1896.

*Peabody Educational Fund.*—Thirty-sixth Meeting, 1896.

*Pennsylvania, Allegheny.*—Report of Comptroller, 1874–75, 1895–96; Annual Reports, 1878–79. Philadelphia: Comptroller's Report, 1878–79; Annual Report Water Department, 1878; Digest of Laws, 1856; University of Pennsylvania, Catalogue 1896–97; Annual Report of Provost, 1895–96.

*Rhode Island, Newport.*—City Documents, 1896. Providence: City Documents, 1896.

*South Carolina, Charleston.*—Year Book, 1896.

*Swift, R. B.*—"Who invented the Reaper?"

*Utah, Salt Lake City.*—Reports, 1896.

*Venn, T. J.*—"Manual of Proof Reading."

*Wisconsin, Milwaukee.*—Reports of City Comptroller, 1895; Annual Reports, 1896.

## BOOKS BOUND.

Two volumes "Sun," July 1, 1896, to June 30, 1897; two volumes "American," July 1, 1896, to June 30, 1897; two volumes "Herald," July 1, 1896, to June 30, 1897; one volume engrossed Ordinances and Resolutions, 1896–7; six volumes Mayors' Messages and Reports; one volume Ordinances and Resolutions; one volume Report Insurance Commission; one volume Maryland Reports; Sun Almanac, 1895, '96 and '97; City Directory, 1895; Branch Journals, four volumes; one volume Webster's Dictionary.

## BOOKS BOUGHT.

City Directory, 1896; Daily Record, volumes 16 and 17.

## BOOKS CONTRIBUTED OR EXCHANGED.

Copies of the Mayor's Message and Annual Reports for 1896 have been sent to the following institutions:

Allegheny, Pa.; Atlanta, Ga.; Annapolis, Md.; Austin, Tex.; Berlin, Germany; Boston, Mass.; Public Library, Boston; Brooklyn, N. Y.; Buffalo, N. Y.; Chicago, Ill.; Cincinnati, O.; Commissioners, District of Columbia; Columbus, O.; Concord, N. H.; Charleston, S. C.; Annapolis, State Library; Detroit, Mich.; Dublin, Ireland; Gloucester, Mass.; Halifax, Canada; Indianapolis, Ind.; London, England; Louisville, Ky.; Lynn, Mass.; Library of Congress; Memphis, Tenn.; Milwaukee, Wis.; Mobile, Ala.; Montreal, Canada; Norfolk, Va.; New Haven, Conn.; Newport, R. I.; Newton, Mass.; New Bedford, Mass.; Newark, N. J.; Omaha, Neb.; Paris, France; Philadelphia, Penna.; Providence, R. I.; Raleigh, N. C.; Richmond, Va.; St. Louis, Mo.; San Francisco, Cal.; Salem, Mass.; Savannah, Ga.; St. Petersburg, Russia; St. Paul, Minn.; Seattle, Wash.; Toronto, Canada; Wilmington, Del.; all the daily papers, City Libraries, Heads of Departments, Members of both Branches. Total, 130 copies.

The following books have been given out on the order of His Honor the Mayor:

Mayors' Messages and Reports:—1800-1830, two copies; 1858, one copy; 1859, one copy; 1864, two copies; 1866, two copies; 1867, two copies; 1869, three copies; 1870, three copies; 1871, three copies; 1874, three copies; 1875, three copies; 1876, three copies; 1877, three copies; 1878, three copies; 1879, three copies; 1880, three copies; 1881, three copies; 1882, three copies; 1883, three copies; 1884, three copies; 1885, four copies; 1886, four copies; 1887, four copies; 1888, four copies; 1889, four copies; 1890, four copies; 1891, four copies; 1892, four copies; 1893, four copies; 1894, four copies; 1895, five copies; 1896, five copies. Ordinances and Resolutions:—1797-1802, eleven copies; 1803-1812, two copies; 1813-1822, two copies; 1823-1827, two copies; 1828-1830, one copy; 1830, one copy; 1832, two copies; 1833, two copies; 1834, two copies; 1835, two copies; 1836, one copy; 1837, two copies; 1839, one copy; 1840, one copy; 1841, one copy; 1842, two copies; 1844, two copies, 1845, two copies, 1846, two copies; 1847, two copies; 1848, two copies; 1849, two

copies; 1850, one copy; 1851, two copies; 1852, two copies; 1853, two copies; 1854, two copies; 1855, two copies; 1856, two copies; 1857, one copy; 1858, two copies; 1858, (Rev.) two copies; 1859, two copies; 1860-1, two copies; 1862, two copies; 1862-3, two copies; 1864, two copies; 1865, two copies; 1866, two copies; 1867, one copy; 1867-8, two copies; 1869-70, two copies; 1871, two copies; 1872, two copies; 1873, two copies; 1874, two copies; 1875, two copies; 1876, two copies; 1877, two copies; 1878, two copies; 1879, three copies; 1880, three copies; 1881, three copies; 1882, three copies; 1883, three copies; 1884, three copies; 1884-5, three copies; 1885-6, three copies; 1886-7, three copies; 1887-8, four copies; 1888 9, four copies; 1889-90, five copies; 1890-1, five copies; 1891-2, seven copies; 1892-3, six copies; 1893-4, eleven copies; 1894-5, ten copies; 1895-6, thirty-five copies.

Journals of the First Branch City Council:—1828, one copy; 1829, one copy; 1830, one copy; 1831, one copy; 1832, one copy; 1833, one copy; 1834, one copy; 1835, one copy; 1836, one copy; 1837, one copy; 1838, one copy; 1840, one copy; 1841, one copy; 1858, one copy; 1859, one copy; 1860, one copy; 1861, one copy; 1862, one copy; 1863, one copy; 1864, one copy; 1865, one copy; 1866, one copy; 1867, one copy; 1868, one copy; 1869, one copy; 1870, one copy; 1871, one copy; 1872, one copy; 1873, one copy; 1874, one copy; 1875, one copy; 1876, one copy; 1877, one copy; 1878, one copy; 1879, one copy; 1880, one copy; 1881, one copy; 1882, one copy; 1883, one copy; 1884-5, one copy; 1885-6, one copy; 1886-7, one copy; 1887-8, one copy; 1888 9, one copy; 1890-1, one copy; 1891-2, one copy; 1892-3, one copy; 1893 4, one copy; 1894-5, two copies; 1895-6, twenty-three copies.

Journals of the Second Branch City Council:—1828, one copy; 1829, one copy; 1830, one copy; 1831, one copy; 1832, one copy; 1833, one copy; 1834, one copy; 1835, one copy; 1836, one copy; 1837, one copy; 1840, one copy; 1841, one copy; 1858, one copy; 1859, one copy; 1860, one copy; 1861, one copy; 1862, one copy; 1863, one copy; 1864, one copy; 1865, one

copy; 1866, one copy; 1867, one copy; 1868, one copy; 1869, one copy; 1870, one copy; 1872, one copy; 1873, one copy; 1874, one copy; 1875, one copy; 1876, one copy; 1877, one copy; 1878, one copy; 1879, one copy; 1880, one copy; 1881, one copy; 1884–5, one copy; 1885–6, one copy; 1886–7, one copy; 1887–8, one copy; 1888–9, one copy; 1889–90, one copy; 1891–2, one copy; 1892–3, one copy; 1893–4, one copy; 1894–5, two copies; 1895-6, twenty-three copies. Code, 1879, and Sup., 1 copy; Code, 1893, thirty-two copies. Public Local Laws, one copy. Wood's Directory, 1884, 1885. Report of Sewerage Commission, one copy. Report of Subway Commission, one copy.

In addition to these have been issued: Mayor's Message and Reports, 1801-1830, one copy; 1838, one copy; 1852, one copy; 1855, one copy; 1858, one copy; 1864, one copy; 1865, one copy; 1866, one copy; 1868, one copy; 1869, one copy; 1870, one copy; 1871, one copy; 1872, one copy; 1873, one copy; 1874, one copy; 1875, one copy; 1877, one copy; 1879, one copy; Mayor's Message, 1876-1879, one copy each. Water Department Reports, 1884, one copy; 1886, one copy; 1887, one copy; 1890, two copies; 1891, two copies; 1892, two copies; 1893, two copies; 1894, two copies; 1895, two copies; 1896, two copies.

Public School Reports, 1858, one copy; 1859, one copy; 1860, one copy; 1861, one copy; 1862, one copy; 1863, one copy; 1865, one copy; 1868, two copies; 1893, one copy; 1894, one copy.

Maryland Reports, vols. 35-45-75-82 83 and 84. Baltimore City Directory, 1860, 1884, 1885, 1887, 1888, 1891, 1895. Maryland Insurance Reports, 1889, 1890.

Finance Reports: 1867, one copy; 1872, one copy; 1877-85, one copy each; 1887, one copy; 1890, one copy; 1892, one copy; 1894, one copy; 1895, two copies. Laws of Maryland: 1850-52, one copy each; 1854, 1856, 1858, 1860, 1862, 1864-68, 1870, 1872, 1874, 1876, 1878, 1880, 1882, 1884, 1886, 1888, 1890, 1892, 1894, 1896, one copy each. Public Local Laws: 1890, one copy.

Health Department Reports: 1824, 1855, 1853, 1872-75, 1877-80, one copy each. City Register's Reports: 1889-96, one copy each.

Ordinances and Resolutions: 1797-1803, one copy; 1813-23, one copy; 1828-30, one copy; 1867, 1868, 1869, one copy each; Revised, 1858, one copy; 1873, one copy; 1881-82, one copy; 1885, one copy; 1886, one copy; 1887-88, two copies; 1888-89, one copy; 1889-90, four copies; 1890-91, three copies; 1891-92, four copies; 1892-93, four copies; 1893-94, forty-seven copies; 1894-95, thirty-nine copies; 1895-96, one hundred and one copies; 1896-7, twenty-eight copies.

First Branch Journals: 1857, 1858, 1859-60, 1860-61, 1862, 1863, 1864, 1866-67, 1867-68, 1868-69, 1869-70, 1870-71, 1871-72, 1872-73, 1873-74, 1874-75, 1875-76, 1876-77, 1877-78, 1878-79, 1879-80, 1880-81, 1881-82, 1882-83, 1883-84, 1884-85, 1885-86, 1886-87, 1890-91, 1891-92, 1892-93, all one copy each; 1893-94, 1894-95, three copies each; 1895-96, thirty copies. Both Branches bound together: 1830, 1831, 1832-3, 1842, 1843, 1856, one copy each.

Second Branch Journals: 1858, 1858-9, 1859-60, 1860-1, 1862, 1862-3, 1863-4, 1864-5, 1866, 1866-7, 1867-8, 1868-9, 1870-1, 1871-2, 1872-3, 1873-4, 1874-5, 1876-7, 1877-8, 1878-9, 1879-80, 1880-1, 1881-2, 1882-3, 1883-4, 1884-5, one copy each; 1886-7, 1888-9, two copies each; 1890-1, 1891-2, 1892-3, two copies each; 1893-4, 1894-5, three copies each; 1895-6, thirty-two copies.

There have been issued of the Report of "The Electrical Subway Commission" ninety-five copies. Of the "Report of the Sewerage Commission" two hundred and sixty-six copies.

Baltimore City Codes were issued this year: To members of the City Council, thirty-nine copies; sold twelve copies; by order of the Mayor and heads of Departments, twenty-nine copies, making a total of eighty copies. This leaves on hand four hundred ahd twenty-three copies.

# STATEMENTS.

THE FOLLOWING WARRANTS HAVE BEEN DRAWN DURING THE YEAR 1897, AGAINST THE APPROPRIATIONS FOR THE CITY LIBRARY AND SALARIES.

| Date. | Warrant Number. | To Whom Issued. | Amount. | |
|---|---|---|---|---|
| 1896. | | | | |
| Dec. 28. | 1433 | *Frank H. Shields..... | $1 62 | 3 mos. sub. to "Sun." |
| " 31. | 1433 | *Guggenheimer, Weil & Co..... | 46 66 | Contractors. |
| " 31. | 1436 | *Wm. J. C. Dulany Co . | 252 35 | " |
| " 31. | 1437 | *Edgar B. Lyon..... | 7 50 | Binding. |
| " 31. | 1438 | *Guggenheimer, Weil & Co ..... | 104 67 | Contractors. |
| " 31. | 1439 | *H. W. Diek & Co..... | 11 67 | Stationery for Mayor's office. |
| " 31. | 1440 | *A. S. Abell Co..... | 75 | Contractors. |
| " 31. | 1441 | *Schaefer & Herold.... | 18 45 | " |
| 1897. | | | $443 67 | |
| Jan. 2. | 1442 | Salaries for Dec., 1896.. | 200 00 | |
| " 7. | 1443 | J. C. Parker & Son..... | 1 95 | Typewriting Report. |
| " 8. | 1444 | John B. Adt..... | 3 00 | Angle irons for shelving. |
| " 20. | 1445 | Baumgartner & Co..... | 1 55 | Rubber stamps. |
| " 20. | 1446 | Daily Record Co. ..... | 3 00 | Vol. 17, Daily Record. |
| " 20. | 1447 | Schaefer & Herold. ..... | 39 20 | Contractors. |
| " 20. | 1448 | J. Harry Drechsler..... | 7 55 | Contractor. |
| " 30. | 1449 | Salaries for January.... | 200 00 | |
| Feb. 1. | 1450 | Kohn & Pollock..... | 38 01 | Contractors. |
| " 1. | 1451 | Adams Express Co. ..... | 25 | Parcel from Boston. |
| " 1. | 1452 | Wm. J. C. Dulany Co .. | 222 54 | Contractors. |
| " 1. | 1453 | " " | 56 05 | " |
| " 1. | 1454 | " " | 1 50 | Stamps and paper wrappers. |
| " 2. | 1455 | Charles F. Miller..... | 91 00 | Shelving, etc. |
| " 4. | 1456 | Guggenheimer, Weil & Co..... ..... | 45 19 | Contractors. |
| " 5. | 1457 | J. W. Bond Co..... | 36 78 | " |
| " 6. | 1458 | John B. Kurtz. ..... .. | 34 22 | Printing Annual Report. |
| " 6. | 1459 | John Murphy & Co..... | 19 56 | Contractors. |
| " 8. | 1460 | U. S. Express Co..... | 35 | Freight on Parcel. |
| " 8. | 1461 | " " | 35 | " " " |
| " 11. | 1462 | Adams Express Co. ..... | 30 | " " " |
| " 11. | 1463 | E. R. Lyon..... | 4 75 | Binding. |
| " 15. | 1464 | Blackbird Pen Co ..... | 1 50 | Pens. |
| " 19. | 1465 | Adams Express Co..... | 40 | Freight on Parcel. |
| " 19. | 1466 | E. R. Lyon..... | 3 00 | Binding and repairing |
| *Amount carried forward* ..... | | | $1,455 67 | |

*Warrants issued in 1896 but not paid until 1897.

| Date. | Warrant Number. | To Whom Issued. | Amount. | |
|---|---|---|---|---|
| 1897. | | *Amount brought forward.* | $1,455 67 | |
| Feb. 23. | 1467 | U. S. Express Co. | 25 | Freight on parcel. |
| " 24. | | M. & M. Trans. Co. | 33 | Freight on parcel from Boston. |
| " 26. | 1469 | J. H. Drechsler. | 3 55 | Contractor. |
| " 27. | 1470 | Salaries for February . . | 200 00 | |
| Mar. 1. | 1471 | Kohn & Pollock. | 35 50 | Contractors. |
| " 1. | 1472 | J. W. Bond Co. | 46 31 | " |
| " 1. | 1473 | Hirshberg, Hollander & Co. | 19 40 | " |
| " 3. | 1474 | Wm. J. C. Dulany Co. . | 217 87 | " |
| " 5. | 1475 | H. R. McCreary. | 7 25 | 29 hours work in Room No. 5. |
| " 5. | 1476 | Guggenheimer, Weil & Co. | 170 54 | Contractors. |
| " 6. | 1477 | John Murphy & Co. | 15 88 | " |
| " 9. | 1478 | Friedenwald Co. | 70 90 | " |
| " 12. | 1479 | H. R. McCreary. | 4 50 | 18 hours work in Room No. 5. |
| " 16. | 1480 | E. R. Lyon. | 9 00 | Binding. |
| " 31. | 1481 | Salaries for March. | 200 00 | |
| Apl. 31. | 1482 | J. H. Drechsler . . . . | 46 25 | Contractor. |
| " 1. | 1483 | Kohn & Pollock. | 59 95 | " |
| " 2. | 1484 | J. W. Bond Co. | 78 07 | " |
| " 5. | 1485 | Guggenheimer, Weil & Co. | 76 39 | " |
| " 6. | 1486 | W. F. Jones. | 1 90 | Labels for Fire Dept. |
| " 7. | 1487 | John Murphy & Co. | 16 55 | Contractors. |
| " 9. | 1488 | City Government. | 3 00 | Sub. to Magazine. |
| " 13. | 1489 | Chesapeake & Potomac Telephone Co. | 33 00 | Rent of Phone, 6 mos. |
| " 13. | 1490 | J. H. Drechsler. | 7 82 | Contractor. |
| " 14. | 1491 | Wm. J. C. Dulany Co. . . | 307 79 | " |
| " 14. | 1492 | Postage Stamps. | 1 00 | |
| " 20. | 1493 | R. L. Polk & Co. | 6 00 | City Directory, 1897. |
| " 20. | 1494 | " " . | 6 00 | " " " (Mayor). |
| " 20. | 1495 | J. H. Drechsler. | 7 55 | Contractor. |
| " 23. | 1496 | Postage Stamps. | 1 00 | |
| " 23. | 1497 | Library Bureau. | 17 81 | Catalogue cards and case. |
| " 23. | 1498 | J. H. Drechsler. | 8 10 | Contractor. |
| " 29. | 1499 | Hirshberg, Hollander & Co. | 26 35 | " |
| " 30. | 1500 | Salaries for April. | 200 00 | |
| " 30. | 1501 | W. L. Sibley. | 15 00 | Two eyelet machines. |
| | | *Amount carried forward.* | $3,373 78 | |

| Date. | Warrant Number. | To Whom Issued. | Amount. | |
|---|---|---|---|---|
| 1897. | | *Amount brought forward.* | $3,373 78 | |
| May 3. | 1502 | J. W. Bond Co | 15 22 | Contractors. |
| " 4. | 1503 | Kohn & Pollock | 4 95 | " |
| " 4. | 1504 | Guggenheimer, Weil & Co | 78 53 | " |
| " 5. | 1505 | Friedenwald Co | 5 45 | " |
| " 9. | 1506 | Wm. J. C. Dulany Co | 116 68 | " |
| " 7. | 1507 | John Murphy & Co | 37 48 | " |
| " 10. | 1508 | United States Express Company | 25 | Parcel from Washington. |
| " 10. | 1509 | Postage Stamps | 75 | |
| " 13. | 1510 | J. H. Drechsler | 4 75 | Contractor. |
| " 29. | 1511 | Salaries for May | 200 00 | |
| June 1. | 1512 | Kohn & Pollock | 19 25 | Contractors. |
| " 2. | 1513 | J. W. Bond Co | 34 43 | " |
| " 3. | 1514 | Guggenheimer, Weil & Co | 68 31 | " |
| " 3. | 1515 | W. J. C. Dulany Co | 176 19 | " |
| " 3. | 1516 | J. H. Drechsler | 7 66 | " |
| " 4. | 1517 | Friedenwald Co | 5 75 | " |
| " 10. | 1518 | John Murphy & Co | 9 28 | " |
| " 10. | 1519 | J. H. Drechsler | 9 00 | " |
| " 10. | 1520 | " " | 7 73 | " |
| " 11. | 1521 | Baumgarten & Co | 1 00 | Rubber Stamps. |
| " 17. | 1522 | J. H. Drechsler | 24 00 | Contractor. |
| " 23. | 1523 | Hirshberg, Hollander & Co | 54 55 | " |
| " 25. | 1524 | J. H. Drechsler | 8 55 | " |
| " 30. | 1525 | Salaries for June | 200 00 | |
| July 1. | 1526 | J. H. Drechsler | 41 60 | " |
| " 1. | 1527 | Kohn & Pollock | 33 45 | " |
| " 1. | 1528 | W. J. C. Dulany Co | 204 19 | " |
| " 3. | 1529 | Baumgarten & Co | 2 00 | Rubber Stamps, &c. |
| " 2. | 1530 | J. W. Bond Co | 53 03 | Contractors. |
| " 12. | 1531 | Guggenheimer, Weil & Co | 37 02 | " |
| " 12. | 1532 | John Murphy & Co | 22 93 | " |
| " 13. | 1533 | J. H. Drechsler | 6 05 | " |
| " 27. | 1534 | Postage | 1 00 | |
| " 27. | 1535 | J. H. Drechsler | 4 00 | Contractor. |
| " 29. | 1536 | H. W. Diek & Co | 3 00 | " |
| " 31. | 1537 | Salaries for July | 200 00 | |
| " 31. | 1538 | W. J. C. Dulany Co | 440 17 | Contractors. |
| Aug. 2. | 1539 | Kohn & Pollock | 91 75 | " |
| | | *Amount carried forward* | $5,603 73 | |

| Date. | Warrant Number. | To Whom Issued. | Amount. | |
|---|---|---|---|---|
| 1897. | | *Amount brought forward.* | $5,603 73 | |
| Aug. 2. | 1540 | E. R. Lyon | 20 25 | Binding. |
| " 2. | 1541 | J. W. Bond Co | 15 82 | Contractors. |
| " 5. | 1542 | Daily Record Co | 3 00 | Vol. 18, Daily Record. |
| " 5. | 1543 | Friedenwald Co | 19 38 | Contractors. |
| " 5. | 1544 | Guggenheimer, Weil & Co | 172 51 | " |
| " 10. | 1545 | U. S. Express Co | 40 | Parcel from Washington. |
| " 11. | 1546 | John Murphy & Co | 15 40 | Contractors. |
| " 16. | 1547 | Postage Stamps | 15 36 | Postage, Mayor's Message. |
| " 17. | 1548 | Library Bureau | 6 05 | Catalogue cards and case. |
| " 20. | 1549 | Stamps and Postals | 1 35 | |
| " 27. | 1550 | J. H. Drechsler | 7 51 | Contractor. |
| " 31. | 1551 | Salaries for August | 200 00 | |
| " 31. | 1552 | E. R. Lyon | 2 25 | Binding. |
| " 31. | 1553 | Munder Bros | 6 25 | Printing. |
| Sept. 1. | 1554 | J. W. Bond & Co | 28 81 | Contractors. |
| " 2. | 1555 | Friedenwald Co | 10 25 | " |
| " 2. | 1554 | Kohn & Pollock | 28 75 | " |
| " 2. | 1557 | Postage Stamps | 2 50 | |
| " 2. | 1558 | J. Murphy & Co | 24 85 | Contractors. |
| " 3. | 1559 | Hirshberg, Hollander & Co | 10 01 | " |
| " 9. | 1560 | W. J. C. Dulany Co | 96 00 | " |
| " 9. | 1561 | J. Ryan & Co | 125 00 | Electrotypes. |
| " 11. | 1562 | J. H. Drechsler | 15 20 | Contractor. |
| " 11. | 1563 | Guggenheimer, Weil & Co | 151 65 | " |
| " 30. | 1564 | Salaries for September | 200 00 | |
| Oct. 1. | 1565 | Kohn & Pollock | 65 95 | Contractors. |
| " 4. | 1566 | J. W. Bond Co | 11 06 | " |
| " 4. | 1567 | W. J. C. Dulany Co | 152 21 | " |
| " 5. | 1568 | Guggenheimer, Weil & Co | 14 73 | " |
| " 9. | 1569 | Friedenwald Co | 4 85 | " |
| " 7. | 1570 | Library Bureau | 9 38 | Cards and case. |
| " 7. | 1571 | Hirshberg, Hollander & Co | 36 80 | Contractors. |
| " 9. | 1572 | John Murphy & Co | 15 05 | " |
| " 12. | 1573 | J. H. Drechsler | 7 65 | " |
| " 12. | 1574 | E. R. Lyon | 2 00 | Binding. |
| | | *Amount carried forward* | $7,101 96 | |

| Date. | Warrant Number. | To Whom Issued. | Amount. | |
|---|---|---|---|---|
| 1897. | | *Amount brought forward.* | $7,101 96 | |
| Oct. 19. | 1575 | Chesapeake & Potomac Telephone Co. | 33 00 | 6 mos. Phone Rental. |
| " 22. | 1576 | J. H. Drechsler | 5 94 | Contractor. |
| " 30. | 1577 | Salaries for October | 200 00 | |
| Nov. 1. | 1578 | Kohn & Pollock | 34 73 | Contractors. |
| " 3. | 1579 | J. W. Bond Co. | 15 84 | " |
| " 3. | 1580 | Postage Stamps | 2 00 | |
| " 5. | 1581 | Guggenheimer, Weil & Co | 21 27 | Contractors. |
| " 5. | 1582 | U. S. Express Co. | 25 | Freight on parcel. |
| " 5. | 1583 | W. J. C. Dulany Co | 201 91 | Contractors. |
| " 9. | 1584 | John Murphy & Co. | 12 72 | " |
| " 19. | 1585 | E. R. Lyon | 9 00 | Binding, etc. |
| " 23. | 1586 | J. H. Drechsler | 3 18 | Contractor. |
| " 30. | 1587 | Salaries for November | 200 00 | |
| Dec. 1. | 1588 | W. J. C. Dulany Co | 115 65 | Contractors. |
| " 3. | 1589 | J. W. Bond Co. | 48 15 | " |
| " 3. | 1590 | Postage | 2 00 | |
| " 3. | 1591 | Guggenheimer, Weil & Co. | 6 58 | Contractors. |
| " 3. | 1592 | Wiederholt & Co. | 75 | Picture frames. |
| " 3. | 1593 | Kohn & Pollock | 19 50 | Contractors. |
| " 3. | 1594 | E. R. Lyon | 13 25 | Binding, etc. |
| " 6. | 1595 | Baumgarten & Co. | 1 00 | Rubber stamps. |
| " 8. | 1596 | E. H. Wiederhold | 1 50 | Frame. |
| " 9. | 1597 | Hirshberg, Hollander & Co. | 2 15 | Contractors. |
| " 11. | 1598 | John Murphy & Co. | 26 11 | " |
| " 18. | 1599 | Postage | 2 00 | |
| " 18. | 1600 | Henry Shirk | 15 00 | 40 copies Council Manual. |
| " 23. | 1601 | E. H. Wiederhold | 75 | Frame. |
| " 23. | 1602 | J. H. Drechsler | 7 10 | Contractor. |
| " 24. | 1603 | H. W. Diek & Co. | 1 50 | Paper for Mayor's office. |
| " 28. | 1604 | E. R. Lyon | 4 15 | Binding. |
| " 30. | 1605 | Kohn & Pollock | 96 00 | Contractor. |
| " 31. | 1606 | J. H. Drechsler | 3 00 | " |
| " 31. | 1607 | M. Hart | 5 00 | Typewriting Report. |
| | | Total | $8,212 94 | |

| | |
|---|---|
| Appropriation | $8,299 54 |
| Less Warrants issued | 8,212 94 |
| Balance | $86 60 |

| Departments. | 1895. | 1896. | 1897. |
|---|---|---|---|
| Appeal Tax Court | $ 179 72 | $ 39 05 | $ 95 38 |
| Baltimore City Jail | 208 32 | 116 45 | 93 66 |
| Bay View Asylum | 264 82 | 190 80 | 256 24 |
| Board of Assessors | 22 98 | 5 61 | ..... |
| City Collector | 2,771 79 | 1,040 02 | 2,056 19 |
| " Comptroller | 516 55 | 397 98 | 229 91 |
| " Commissioner | 722 43 | 219 63 | 366 80 |
| " Register | 344 77 | 239 00 | 253 84 |
| Commissioners for Opening Streets | 87 30 | 5 83 | 37 82 |
| Commissioner of Street Cleaning | 88 74 | 26 53 | 126 18 |
| Markets | 15 47 | 9 82 | 19 13 |
| Examiner of Titles | 31 73 | 39 68 | 69 10 |
| Topographical Survey | ..... | ..... | 3 78 |
| Fire Department | 920 59 | 358 12 | 435 28 |
| General Superintendent of Lamps | 127 13 | 75 79 | 79 96 |
| Health Department | 1,130 42 | 681 92 | 793 65 |
| Harbor Board | 81 82 | 64 52 | 19 22 |
| Harbor Masters | 35 45 | 21 67 | 27 57 |
| Inspector of Buildings | 101 32 | 177 50 | 114 70 |
| Inspector of Gas and Oils | 19 37 | 20 | ..... |
| Law Department | 36 27 | 4 21 | 19 25 |
| Park Board | ..... | 6 87 | 11 87 |
| Mayor's Office | 335 36 | 102 67 | 228 36 |
| Superintendent City Hall | 5 57 | ..... | ..... |
| " Public Buildings | ..... | 3 26 | 23 58 |
| City Library | 3,113 91 | ..... | ..... |
| " " Salaries $2,400 00 | | | |
| " " Telephone 66 00 | | | |
| " " Supplies 385 57 | | | |
| | | | 2,851 57 |
| | $11,161 43 | $6,683 11 | $8,212 94 |
| Leaving an unexpended balance of | | | 86 60 |

The following departments, while ordering their supplies through the Library, settled for it by their respective warrants upon the Comptroller, viz.:

| | 1895. | 1896. | 1897. |
|---|---|---|---|
| Chief Engineer Water Department | $ 392 51 | $ 367 39 | $1,306 35 |
| Water Department | 1,410 84 | 1,275 62 | 982 74 |
| | $1,803 35 | $1,643 01 | $2,289 09 |

It will be noted that there is an increase of about $1,500.00 over the expenses of 1896. This is accounted for in two ways. The expenses of 1896 were, as will appear from above statement, nearly $4,500.00 less than in 1895. This was due to the fact that nearly all the various officials were held over, in some cases from March to December; and knowing the uncertainty of their tenure of office, refrained from ordering material. The cause of the increase in 1897 is to be found in the Departments of the City Collector, Appeal Tax Court, Mayor's office and City Library. The excess in the City Collector's office and Appeal Tax Court was caused by the New Assessment. In the Library, $100 was paid for shelving, etc., out of the regular Library Fund, as the contractor failed to present his bill in time to be paid out of the levy of 1896. The Ways and Means Committee allowed the Librarian $200 over the regular estimate to make much needed improvements. This was expended in working up over half a million old tax bills into pads, cases and cards for indexes, labor, binding and incidentals.

Besides this, large amounts of material previously ordered directly by the departments, have been purchased by the Librarian. This has helped to swell the total.

Respectfully submitted.

GEO. W. McCREARY, *City Librarian.*

# ANNUAL REPORT

— OF THE —

# HEALTH DEPARTMENT

— TO THE —

## Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31st, 1897.

# OFFICERS AND EMPLOYES OF THE BOARD OF HEALTH

— OF THE —

## CITY AND PORT OF BALTIMORE FOR THE YEAR ENDING DECEMBER 31, 1897.

HON. ALCAEUS HOOPER, MAYOR,
*Member Ex-officio.*

JAMES F. McSHANE, M.D.,
*President, Commissioner of Health and Registrar.*

JOHN TYLER SMITH, M.D.,
*Assistant Commissioner of Health.*

V. BURGESS HINES,
*Secretary of the Board of Health.*

GEORGE C. VANSANT,
*Assistant Secretary of the Board of Health.*

SIDNEY O. HEISKELL, M.D.,
*Resident Physician at the Quarantine Hospital of the Port of Baltimore.*

ALLEN W. SMITH, M.D.,
*Assistant Physician at the Quarantine Hospital of the Port of Baltimore.*

JOSEPH C. MITCHELL, *Inspector of Plumbing.*

S. CHARLES WEGEFARTH, M.D., *Inspector of Drains.*

MICHAEL A. MALONEY, *Permit Clerk.*

HARRY C. ANDREWS, *Nuisance Clerk.*

JAMES E. HUBBERT, *Clerk to Registrar.*

JAMES E. KING, *Recorder of Births.*

MONTGOMERY LAWRENCE, *Asss't Permit and Ass't Clerk to Registrar.*

SANITARY INSPECTORS:

JOSEPH C. FITZPATRICK,
C. HAMPSON JONES, M.D.,
JOHN F. HEMPEL, M.D.,
CHARLES M. BUBERT, M.D.,
WALTER W. WHITE, JR., M.D.,
GEORGE C. CORNELIUS, D.V.S.
GILMAN P. EVANS, M.D.

G. W. LEHMANN, Ph. D., *Chemist.*

WILLIAM ROYAL STOKES, M.D., *Bacteriologist.*

THOMAS SLAGLE and HENRY S. REAY, *Inspectors of Milk.*

T. EUGENE CARMICHAEL, *Inspector of Meats, Vegetables, Fruits, etc.*

G. FREDERICK RUECKERT, *Inspector of Bakeries.*

NICHOLAS G. KEIRLE, M.D., *Medical Examiner.*

JOHN B. SCHWATKA, M.D., *Assistant Medical Examiner.*

GEORGE E. BROWN, *Superintendent of Public Cemeteries.*

LOUIS C. JONES and GEORGE SCHLEY, *Drivers of Funeral Wagons.*

WILLIAM H. HACKMANN, *Keeper of Morgue.*

ERNEST TSCHUDY, *Detective.* HENRY HASENKAMP, *Messenger.*

JAMES L. MILLS and GEORGE W. PARLETT, *Disinfectors.*

WILLIAM H. BLONDELL, *Watchman at Dumps.*

LAWRENCE CONNELLY, *Maker of Disinfectants.*

CITY ANNEX SANITARY INSPECTORS:

D. S. WILLIAMS, M.D., and LOUIS F. FREY, M.D., *Twenty-first Ward.*
HARRY C. AEGIRE, M.D., and GEO. H. EVERHART, M.D., *Twenty-second Ward*

# VACCINE PHYSICIANS.

*First Ward:*
CHARLES S. NEER, M.D., 619 S. Patterson Park avenue.

*Second Ward:*
JOHN H. REHBERGER, M.D., 1709 Aliceanna street.

*Third Ward:*
WILLIAM H. HUGHES, M.D., 1523 E. Baltimore street.

*Fourth Ward:*
JACOB H. MITNICK, M.D., 309 N. Exeter street.

*Fifth Ward:*
ARTHUR WEGEFARTH, M.D., 805 Aisquith Street.

*Sixth Ward:*
SAMUEL T. ROEDER, M.D., 1904 E. Fayette street.

*Seventh Ward:*
G. HENRY CHABOT, M.D., 1111 E. Preston street.

*Eighth Ward:*
HENRY F. CASSIDY, M.D., 702 Greenmount avenue.

*Ninth Ward:*
CHARLES W. HARTWIG, M.D., 111 W. Saratoga street.

*Tenth Ward:*
ROBERT J. MURRAY, M.D., 330 N. Fremont avenue.

*Eleventh Ward:*
E. LAMBERT YOUREX, M.D., 1138 Druid Hill avenue.

*Twelfth Ward:*
MORRIS C. ROBINS, M.D., 1344 Druid Hill avenue.

*Thirteenth Ward:*
WILLIAM WOLF, M.D., 945 W. Fayette street.

*Fourteenth Ward:*
JOHN G. JEFFERS, M.D., 1143 W. Franklin street.

*Fifteenth Ward:*
HENRY H. IMHOFE, M.D., 622 Hanover street.

*Sixteenth Ward:*
C. LUNSFORD NUCKOLS, M.D., 643 S. Paca street.

*Seventeenth Ward:*
HOLLIDAY H. HAYDEN, M.D., 1425 Light street.

*Eighteenth Ward:*
HARRY BOYD, M.D., 677 Columbia avenue.

*Nineteenth Ward:*
HARRY H. ARTHUR, M.D., 1516 W. Lexington street.

*Twentieth Ward:*
WILLIAM KROH, M.D., 1304 W. Lafayette avenue.

*Twenty-first Ward:*
J. BURCH JOYCE, M.D., 2526 W. Baltimore street.

*Twenty-second Ward:*
HENRY G. PRENTISS, M.D., 809 Gorsuch avenue.

# REPORT

— OF THE —

# COMMISSIONER OF HEALTH.

# REPORT.

HEALTH DEPARTMENT—CITY HALL ANNEX,

BALTIMORE, January 3, 1898.

*To the Honorable the Mayor and City Council of Baltimore:*

GENTLEMEN: In accordance with the requirements of law, I submit herewith a report of the operations of the Health Department for the year ending December 31, 1897.

It is with great pleasure I express to you the gratification felt at the low rate of mortality and the evidences of good health enjoyed by our citizens during the past year. The total deaths, from all causes, reported in 1897 was 9,329, of which number 7,163 were white and 2,166 were colored. The death rate for the whites was 16.61 per thousand of population and 28.88 for the colored. The rate per thousand for the whole population was 18.43. This is a satisfactory showing as compared with the preceding year, when the total mortality was 9,919 and the death rate 19.1 per thousand. Notwithstanding this decrease, and the fact that the city has not been visited nor threatened with any epidemic of alarming proportions, a far greater reduction could be made if the sanitary defences were improved and increased.

## ZYMOTIC DISEASES.

*Diphtheria.*—The number of cases of diphtheria reported during the year was 1,491, an increase of 1,011 as compared with 1896. The number of deaths resulting from diphtheria was 249, a decrease of 98 as compared with 1896.

The increase in the number of cases during the latter months of the year gave warning of a serious outbreak of this disease, and at the same time a demand upon this department to institute stringent measures to restrict its advance and protect the public against its

ravages. Investigation of the causes revealed the following sources of infection: Failure to isolate patients, unrestricted visiting, the public and private schools, failure to report "mild cases" which were exposed to indiscriminate contact with their schoolmates and friends, the insanitary condition of privies, failure to destroy or properly disinfect clothing or other material which had been in contact with the patient, and the lack of proper disinfection and cleansing of the premises.

Appreciating the fact that in most epidemics those sick with the disease are a small proportion of the infected, and that convalescents carried the germ in their throats for a varying time, probably several weeks after recovery from the symptoms, and also that healthy persons in considerable numbers in the houses in which the disease existed have the germ in their throats, it was determined, after consultation with His Honor the Mayor and the President of the Board of Commissioners of the Public Schools, to direct the principals of the various public schools to report to this department all cases of "sore throat" coming under their observation in the schools, and to exclude children from school in all cases where diphtheria existed in any house until a bacterial examination revealed the absence of the germ. As a result during the month of December 229 cases were reported from the schools, cultures were made from the throats of these children, and of this number 51 gave positive evidence of the disease. In order to further restrict the disease and reduce the mortality, it was determined, with the consent of His Honor the Mayor, to furnish diphtheria antitoxin free (in cases where payment for the remedy would be a hardship), both for curative and immunizing purposes. The result has been most beneficent, and the specific value of antitoxic serum in the treatment of diphtheria and the immunization of those unfortunately unable to be isolated is specially gratifying and affords ample compensation for the labor and money expended in the inauguration and maintenance of the work.

*Croup.*—The number of cases of croup reported during the year was 129, a decrease of 44 as compared with 1896. The number of deaths was 13, a decrease of 19 as compared with 1896.

*Scarlet Fever.*—The number of cases of scarlet fever reported during the year was 1,028, an increase of 324 as compared with 1896. The number of deaths was 53, an increase of 22 as compared with 1896.

*Measles.*—The number of cases of measles reported during the the year was 559, a decrease of 343 as compared with 1896. The number of deaths was 16, a decrease of 11 as compared with 1896.

*Small-pox.*—The city is to be congratulated that not one case of small-pox has been reported during the past year.

*Typhoid Fever.*—The number of cases of typhoid fever reported during the year was 363, and the number of deaths 189. It is an interesting fact that an analysis of the results of investigation of reported cases of typhoid fever, where an intelligent history could be obtained, shows that over sixty per cent. of the cases was the result of infection which had occurred outside of the city. This fact would go far, were it at all necessary, to prove the general purity of the water supply.

*Whooping Cough.*—The number of cases reported during the year was 213, a decrease of 53 as compared with the year 1896. The number of deaths was 42, a decrease of 45 as compared with 1896.

*Varicella.*—The number of cases reported was 47, a decrease of 21 as compared with 1896. The number of deaths was 1, a decrease of 1 as compared with 1896.

*Consumption.*—But few cases were reported during the year, notwithstanding the law demands the reporting of these cases. The deaths from consumption numbered 1,047, a decrease of 75 as compared with 1896. It is conceded by all scientific physicians that pulmonary consumption or tuberculosis is a communicable and largely preventable disease. As it causes over one-eighth of all the mortality in this city measures designed to protect the community from this scourge should be instituted. As the communicable element or germ is contained in the expectoration of those affected, and a healthy person can contract the disease from the dried expectoration, the lesson is obvious. The consumptive should destroy all expectorations before they get dry, by spitting

into bits of cloth or paper provided for the purpose, and these should be burned. The practice of public expectoration should be discouraged both by precept and example, as it is not only offensive, but dangerous to those who inhale it when dried up, powdered and floating in the air. Spitting upon the floors of public conveyances, on the sidewalks or in places of public assembly should be prohibited.

*Pneumonia.*—The deaths from pneumonia numbered 759, a decrease of 125 as compared with 1896.

*Cholera Infantum.*—Four hundred and one deaths were reported from this cause, a decrease of 11 as compared with the year 1896.

*Leprosy.*—In April last a woman, named Mary Sansone, was brought to Baltimore from Allegany City, Pa., and was conveyed to the Johns Hopkins Hospital. A few days after entering the hospital, the case was reported to the department as leprosy. The diagnosis was confirmed by microscopic examination. Preparations were made for the removal and isolation of this patient, by the department, by reconstructing house formerly occupied by the physician at the old quarantine station, but before their completion the department was restrained from segregating the patient at this place by the institution of a suit by the Fairfield Improvement Company and others, and an injunction was granted restraining the department from conveying her to this point, notwithstanding there was no reasonable ground for any exaggerated alarm over a case of leprosy, as it does not thrive elsewhere in North America, and there is no tendency for its general spread. Well known facts in the history of this disease, cited in papers published on the subject, leave no doubt of the possibility of its being communicated by inoculation like any other bacterial disease produced by a specific germ, yet there are scores of examples of physicians, nurses and attendants upon lepers who inspire leprous-infected air and have not suffered from the disease, and there is no well authenticated case recorded of its communication in this manner. This should be sufficient to remove any fear of its spread by aerial infection. A case of leprosy is less likely to infect others, and is less of a menace to the general health of the community in which it may be found, when properly cared for, than any of the other commu-

nicable diseases. (An appeal from decision of the lower court was taken).

I most respectfully suggest that you consider the advisability of giving permission to this department to adopt or have an amendment made to Article 42, title "Registration of Births and Deaths," adopting the Bertillon classification of causes of death. The adoption of this classification was recommended at the last meeting of the American Public Health Association, held at Philadelphia, October 26-29, 1897, in order to secure uniformity in methods. The following extract from the report of the committee of this association is submitted for consideration:

"The time has come when it would seem desirable that this association should pronounce definitely in favor of a standard classification of causes of death for use in the compilation of statistical reports. The Bertillon system, reported to the International Statistical Institute at Chicago in 1893, seems to have better prospects of general adoption at this time by registrars generally in the three countries represented in this association than any other, and therefore this committee submits, as its chief recommendation for action by the association at the present session, that the Bertillon classification be declared the choice of the American Public Health Association.

"It has already been put into practical use by the governments of Mexico and of the province of Quebec in their reports, and several States of the United States will undoubtedly accept it when endorsed by the association. Among those ready for the immediate adoption of a modern nomenclature are Massachusetts, Michigan, Ohio and Vermont, while all of the States included in the New England Registrar's Association will, it is hoped, conform. Besides the longer classification there is a short and an intermediate classification, each comparable with the long one, so that the needs of cities and of monthly reports from States requiring less statistical detail are fully provided for. It is especially desirable that the municipal reports adopt the same classification as those used in the State systems.

It is not maintained that the Bertillon is entirely perfect, nor that it may not properly be subject to revision after a reasonable

time. It is believed, however, that its adoption in its present condition will afford a working basis of uniformity and lead to general improvement along the best lines. Much energy is dissipated and many valuable suggestions come to naught from the utter absence of co-ordination. Working together, with a broad basis of agreement, many improvements will be made by the associated registrars and come into general use that it would not be possible if each State and city continues its development along individual lines."

### BIRTHS.

The total number of births reported during the year was 8,800, of which 7,382 were white and 1,418 colored. This number is but a beggarly exhibit of the facts, since physicians and midwives neglect to make returns. The importance of the registration of births can be amply demonstrated by the frequent applications for transcripts for legal and other purposes.

### ISOLATION HOSPITAL AND DISINFECTION PLANT.

It is necessary to reiterate the recommendations made in previous reports with regard to providing those indispensable adjuncts to a well-equipped health department, viz.: a hospital for the isolation and treatment of those suffering with diphtheria, scarlet fever and other communicable diseases, and a steam disinfecting plant. These institutions would lessen the spread of infection and be the means of preventing many cases and deaths. We possess no efficient method of disinfecting bedding, upholstered furniture, clothing, carpets or other costly articles without injury. It is most earnestly hoped that provision will be made for this absolutely necessary means of preventing communicable diseases.

### VACCINATION.

The work of the vaccine physicians is shown in detail in table. The work performed has been satisfactory.

### CHEMICAL LABORATORY.

The analyses conducted in this laboratory during the past year have embraced water, milk, candies, suspected adulterations of

certain food products, and a number for other branches of the city government. Experimental work in relation to the exactitude and practical application of analytical methods employed have been carried on throughout the year. The importance of a pure milk supply cannot be questioned and the report of the chemist shows a gratifying improvement in the quality of this article, which is the sole food of a large proportion of the infant population and of many invalids. The means best adapted to secure an unadulterated and wholesome supply is second to none with which the department has to deal, and further enactments are necessary not only to prevent adulteration or attenuation but to secure and maintain a supply uncontaminated by disease producing organism, and from animals healthy in every respect. Measures should be adopted to put the following requirements into effect:

Every dealer in the city should be required to obtain a permit from the Health Department for the sale of milk. In making application for the same he should furnish, on blanks provided for the purpose, full information as to daily sales, from whom the milk is purchased or obtained, time when delivered, how it is kept during sale—special attention being paid to the condition of the ice-box, if the milk is kept in such a receptacle.

If the dealer procures his supply from his own farm, or obtains it from a farmer, creamery, etc., outside the city, he should furnish information regarding the method of its shipment, the location of the farm, creamery, etc., and the breed, condition, food, housing, and water supply of the cows. If the milk is to be sold from wagons, the dealer should furnish additional information as to the name of the driver and the number of the wagon.

The results to be obtained from the adoption of a permit system outlined as above would enable the department to control more closely the milk supply than is now possible, and be the source of much valuable information regarding the sources of supply and their improvement from the bacteriological standpoint, as distinguished from the adulteration of milk in respect to its normal constituents.

Careful and extended investigation has been made with reference to the use of preservatives in milk, and several persons were found to be using them for this purpose. This practice was stopped, and as far as known has not been resumed.

Although the number of inspectors is small, more inspections were made than during the preceding year, and the number of adulterated samples of milk discovered have diminished. This affords gratifying evidence of increasing success in dealing with milk adulteration in this city.

The inspector of meats, etc., made 9,317 visits to markets, provision stores and slaughter houses, and condemned and had removed 5,936 pounds of various meats and a large quantity of poultry, fish, vegetables and fruits.

### BACTERIOLOGICAL LABORATORY.

The work in this laboratory, recognized as a most essential adjunct, has been carried on with entire success during the year, and has proven of the greatest practicable utility to the city. A considerable increase in the work is shown along the lines first established compared with the year 1896.

In connection with the routine work mentioned a series of investigations was made for the purpose of determining the condition of the milk as supplied to our citizens; experiments to determine the value of formaldehyde gas as a germicide and its applicability to the efficient disinfection of rooms, fabrics, etc., and the examination of the water supply, all of which is fully set forth in the accompanying report of the zealous and untiring head of this division. The results of the experimental work with formaldehyde gas has led to its adoption in place of sulphurous acid gas heretofore used, as it was found to be more efficacious.

### PUBLIC SCHOOLS.

During the past year an examination of a number of the public schools was made with a view of determining their condition from a sanitary point of view. The results show defective construction, lack of light, heat and ventilation, bad hygienic surroundings, overcrowding, and no provision for the storage of wraps. The greatest amount of air space allotted a child in any of these schools was three hundred and fifty cubic feet, and the smallest fifty-three cubic feet. When we consider the ill-effects of school life with bad hygienic surroundings and defectively-constructed buildings, it is surprising that so little thought and attention has been given to the well-being and comfort of the children. Most of these build-

ings are a fruitful means for the propagation of preventable diseases. Bad sanitary conditions may so impress the delicate organization of a naturally weak child as to make life a burden to him, or may so influence a vigorous constitution as to materially lessen his power of resistance. The bad effects arising from bad light, heat and ventilation are so many, so varied and so far-reaching in their effects on the physical vitality of the children as to produce untold suffering. The method of training the mind at the expense of the body can only be denounced, and it behooves us to demand sanitary legislation for the welfare of the school children.

Legislation should be enacted providing for the proper lighting, heating and ventilation of each school. In this connection I take the liberty of suggesting that the following propositions should be embodied in a law regulating the proper construction of school buildings:

1. That not less than fifteen square feet of floor space and two thousand cubic feet of air per hour shall be provided for each pupil. The air should be delivered into the room near the ceiling, allowing the air to diffuse itself at the top of the room, and there settle down. The amount of air, two thousand cubic feet per hour, is what the lungs require to keep the pupil in a healthy condition, and is fully as important to him as is suitable food.

2. The heating apparatus should be sufficient to warm this amount of air and of sufficient capacity to heat the required amount of air to the desired temperature to warm the room to seventy degrees in the coldest weather.

3. That the supply of air will so circulate in the rooms that no uncomfortable draught will be felt and that the difference in temperature between any two points on the breathing plane, in the occupied portion of a room will not exceed three degrees.

4. That the light should enter the room so that it shall come from the left of the pupil, and it should never be less than one-seventh of the floor space. The windows should be so constructed that there will be little or no shadow.

5. The size of the halls and stairs should be regulated. The hall space should be equal to one-sixth of the room space. The entrances should be vestibuled and all the stairs made fire-

proof. Foot warmers should be placed in each hall, so that the children may dry their feet in wet weather.

6. The cloak rooms should be heated and air changed therein at least four times an hour.

7. That vitiated air, in amount equal to the supply from the inlets, will be removed through the vents.

8. That the sanitary appliances will be so ventilated that no odors therefrom will be perceived in any portion of the building.

Considering the number of school children annually reported to the department as being affected with some communicable disease, I would respectfully suggest the adoption of the methods pursued in a number of other cities, to which attention was called in a former report, viz.: Medical inspection.

### WATER-SHED.

During the year the work of sanitary supervision of the water-shed has been continued, and the reports of Dr. Everhart, to whom was assigned this duty, shows a marked improvement in the conditions over the preceding year. The Gunpowder, Jones Falls, and their tributaries, have been carefully and repeatedly visited and inspected throughout their courses. Ninety-five notices were given to abate nuisances along their banks, of which forty-four were immediately remedied, thirty-six are in process of abatement and fifteen suits instituted for non-compliance.

### INSPECTOR OF BAKERIES.

The work of inspection of bakeries was carried on during the year with great care, and the report of the Inspector shows an improvement in conditions. To render the work more effective than is possible under the present law the following amendments are respectfully suggested: All buildings or rooms occupied as bread, biscuit, pie or cake bakeries should be drained and plumbed so as to be conducive to proper and healthful conditions. They should be constructed with air shafts, windows or ventilating pipes sufficient to insure ventilation. Every room used for the manufacture of any of these products should be at least eight feet in height and have impermeable floors. The walls should be plastered or wainscoted, and the ceiling should be whitewashed at least once in

three months. The furniture and utensils in such rooms should be so arranged that the furniture and floor may at all times be kept in a proper and healthful condition. The sleeping apartments should be separate from the rooms in which these products are manufactured or stored. No cellar or basement should hereafter be permitted to be used as a bakery unless all the above requirements are complied with.

### SEWERAGE.

The desirability and necessity of a sewerage system having impressed itself upon our citizens it is to be hoped that ways and means may be forthcoming to construct this much-needed improvement and protection to the public health. In the meantime legislation is urgently required regulating the construction of privies or cesspools, and I know of no subject that could engage your attention in a direction in which improvement is needed greater than the abatement of the evils resulting from these foul and badly-constructed distributors of disease.

### GARBAGE DISPOSAL.

The disposal of the animal and vegetable waste collected by the city should receive earnest attention. The present crude and offensive methods should give way for others more in accordance with the requirements of modern sanitation.

This branch of municipal work has not received the attention it demands, and whilst there is diversity of opinion regarding the proper methods to be pursued, yet a satisfactory basis can be founded upon the experience and results obtained by other municipalities, and the best method of disposal suited to our local needs be adopted.

### REPORT OF THE MEDICAL EXAMINERS.

The report shows that ninety-eight post-mortems were made during the year.

### REPORT OF THE INSPECTOR OF PLUMBING.

The report of the Inspector of Plumbing is herewith appended. The amount of work performed is greater than in any previous year, and I take the liberty of suggesting an assistant to the inspector in order to more fully carry out the requirements of law.

### THE MORGUE.

The following report of the keeper shows the number of bodies cared for and the disposition made of them:

| | |
|---|---|
| Males | 236 |
| Females | 54 |
| White | 144 |
| Colored | 146 |
| Still-births (unclassified) | 4 |
| Buried by relations or friends | 98 |
| Buried by city | 189 |
| Number of bodies identified | 274 |
| Number of bodies unidentified | 20 |
| Number of post-mortems | 17 |
| Number of bodies remaining in Morgue, December 31, 1897 | 7 |
| Total number of bodies received from January 1, 1897, to December 31, 1897 | 294 |
| Total number of bodies received from March 11, 1891 (date of opening) to December 31, 1897 | 1,351 |

### REPORT OF THE ASSISTANT COMMISSIONER OF HEALTH.

The report of Dr. J. Tyler Smith, Assistant Commissioner of Health, shows in detail the work performed by the sanitary inspectors, etc.

### REPORT OF THE SUPERINTENDENT OF PUBLIC CEMETERIES.

The accompanying report of the Superintendent of Public Cemeteries gives a detailed statement of interments, etc.

THE FOLLOWING ARE THE ESTIMATES FOR THE EXPENSES OF THE HEALTH DEPARTMENT FOR THE YEAR 1898:

| | |
|---|---|
| Salaries | $45,660 |
| General Health | 16,000 |
| Quarantine Hospital | 24,000 |

CITY ANNEX:

| | |
|---|---|
| Salaries | $3,800 |

In conclusion, I desire to express my appreciation of the faithful and efficient services of the officers of this department, and the interest displayed by them in the work has greatly contributed to its success and usefulness.

Very respectfully, your obedient servant,

JAMES G. McSHANE, M.D.,

*Commissioner of Health.*

# TABLES.

## VITAL STATISTICS OF THE CITY OF BALTIMORE FOR THE YEAR ENDING DECEMBER 31, 1897.

| | | | |
|---|---|---|---|
| Estimated population, white | | | 431,054 |
| " " colored | | | 75,344 |
| Total population | | | 506,398 |
| Marriages, 4,823 Rate per 1,000 of population | | 9.53 | |
| Births (reported), white males | 3,733 | | |
| " " " females | 3,649 | | |
| Total | | 7,382 | |
| Births (reported), colored males | 752 | | |
| " " " females | 666 | | |
| Total (reported) | | 1,418 | |
| Total males | 4,485 | | |
| " females | 4,315 | | |
| Grand total | | 8,800 | |
| Birth rate per 1,000, white population | 17.12 | | |
| " " " " colored " | 18.90 | | |
| " " " " whole " | 17.39 | | |
| Still births | | 706 | |
| Total mortality native white males | 2,935 | | |
| " " " " females | 2,664 | | |
| Total | | 5,599 | |
| Total mortality foreign white males | 825 | | |
| " " " " females | 739 | | |
| Total | | 1,564 | |
| Total mortality colored males | 1,091 | | |
| " " " females | 1,075 | | |
| Total | | 2,166 | |
| Total males | 4,851 | | |
| " females | 4,478 | | |
| Grand total | | 9,329 | |
| Annual death rate per 1,000, white population | | | 16.61 |
| " " " " " colored " | | | 28.88 |
| " " " " " whole " | | | 18.43 |
| Total number of deaths from Measles | | 16 | |
| " " " " " Scarlet fever | | 53 | |
| " " " " " Diphtheria | | 347 | |
| " " " " " Croup | | 13 | |
| " " " " " Whooping cough | | 42 | |
| " " " " " Typhoid fever | | 189 | |
| " " " " " Typho-malarial f'v'r | | 20 | |
| " " " " " Diarrhoea | | 99 | |
| " " " " " Dysentery | | 57 | |

| | |
|---|---|
| Total number of deaths from Cholera infantum... | 401 |
| " " " " " Cholera morbus.... | 14 |
| " " " " " Consumption..... | 1,047 |
| " " " " " Pneumonia..... | 759 |
| " " " " " Bronchitis..... | 243 |
| " " " " " Influenza..... | 88 |
| " " " " " Bright's disease.... | 203 |
| " " " " " Cancer..... | 316 |
| " " " " " Disease of heart.... | 478 |
| " " " " " Sun and heat stroke. | 11 |
| " " " " " Pernicious anaemia. | 12 |
| " " " " " Appendicitis..... | 33 |
| " " " " " Illuminating gas.... | 9 |
| " " " " " Accident..... | 87 |
| " " " " " Cerebro-spinal fever | 22 |

TOTAL NUMBER OF DEATHS FROM ABNORMAL CONDITIONS CONNECTED WITH PARTURITION.

| | | |
|---|---|---|
| Puerperal fever | | 4 |
| " convulsions | | 11 |
| " peritonitis | | 10 |
| " septicaemia | | 19 |
| Child-birth | | 10 |
| Abortion | | 6 |
| Hemorrhage post-partum | | 3 |
| " placenta praevia | | 2 |
| Total mortality under five years of age | | 3,510 |
| Percentage to total mortality | 37.62 | |
| Total mortality from diarrhoeal diseases under five years. | | 830 |
| " " " " " all ages | | 970 |

DEATHS IN PUBLIC INSTITUTIONS.

| | |
|---|---|
| Baltimore City Jail | 9 |
| Penitentiary | 18 |
| Hospitals and asylums | 1,153 |
| Total | 1,180 |
| Deaths reported by Coroners, including inquests | 816 |
| Total autopsies | 98 |
| Bodies received at City Morgue | 294 |

V. BURGESS HINES,

*Secretary Board of Health.*

TABLE I.

Showing the Number of Cases Reported and Mortality From the Principal Zymotic Diseases During the Years 1894, 1895 and 1896, Compared with 1897, with Percentage of Deaths to Cases Reported in Each Year.

| Diseases. | Cases Reported in 1894. | Deaths Reported in 1894. | Percentage of Deaths in 1894. | Cases Reported in 1895. | Deaths Reported in 1895. | Percentage of Deaths in 1895. | Cases Reported in 1896. | Deaths Reported in 1896. | Percentage of Deaths in 1896. | Cases Reported in 1897. | Deaths Reported in 1897. | Percentage of Deaths in 1897. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diphtheria | 267 | 198 | 74.15 | 371 | 265 | 71.42 | 480 | 249 | 51.87 | 1,491 | 347 | 23.27 |
| Scarlet fever | 999 | 85 | 8.50 | 775 | 59 | 7.61 | 694 | 31 | 4.46 | 928 | 53 | 5.71 |
| Croup | 142 | 33 | 23.33 | 258 | 45 | 17.44 | 173 | 32 | 12.65 | 129 | 13 | 10.07 |
| Measles | 98 | 3 | 3.06 | 2,332 | 68 | 2.91 | 1,002 | 27 | 2.69 | 659 | 16 | 2.42 |
| Varioloid | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Varicella | 53 | 1 | 1.88 | 40 | ..... | ..... | 68 | 2 | 2.94 | 47 | 1 | 2.12 |
| Whooping cough | 320 | 112 | 35.00 | 171 | 68 | 39.76 | 266 | 87 | 32.87 | 213 | 42 | 19.71 |
| Mumps | 80 | 1 | 1.25 | 62 | 2 | 3.22 | 73 | 1 | 1.36 | 132 | ..... | ..... |
| Typhoid fever | 222 | ..... | ..... | *260 | 173 | 66.53 | 472 | 188 | 39.83 | 363 | 189 | 52.06 |
| Consumption | 1,106 | ..... | ..... | ..... | 1,141 | ..... | ..... | 1,122 | ..... | ..... | 1,047 | ..... |
| Pneumonia | 790 | ..... | ..... | ..... | 933 | ..... | ..... | 884 | ..... | ..... | 759 | ..... |
| Cholera infantum | 440 | ..... | ..... | ..... | 510 | ..... | ..... | 412 | ..... | ..... | 401 | ..... |

*Compulsory reporting of typhoid fever went into effect July 1, 1895.

V. BURGESS HINES,
*Secretary Board of Health.*

## TABLE II.

Showing Number of Dwellings, Population, White and Colored, Total Number of Deaths, and Death Rate per 1,000 in Each Ward for the Year 1897.

| Wards. | Dwellings. | Population. | | | Total Number of Deaths. | Death Rate per 1,000 in Each Ward and Total Population. |
|---|---|---|---|---|---|---|
| | | White. | Colored. | Total. | | |
| First | 5,813 | 24,471 | 526 | 24,997 | 465 | 18.60 |
| Second | 2,511 | 16,169 | 390 | 16,559 | 344 | 21.50 |
| Third | 2,770 | 14,837 | 2,448 | 17,285 | 368 | 21.64 |
| Fourth | 2,821 | 13,836 | 2,665 | 16,501 | 321 | 20.06 |
| Fifth | 2,864 | 13,711 | 3,822 | 17,533 | 244 | 14.35 |
| Sixth | 8,811 | 28,631 | 3,792 | 32,423 | 860 | 26.87 |
| Seventh | 9,717 | 30,689 | 1,546 | 32,235 | 501 | 15.65 |
| Eighth | 6,318 | 23,668 | 2,827 | 26,495 | 441 | 16.96 |
| Ninth | 2,154 | 16,074 | 2,644 | 18,718 | 491 | 25.84 |
| Tenth | 2,654 | 13,505 | 4,268 | 17,773 | 288 | 15.99 |
| Eleventh | 3,821 | 10,797 | 12.701 | 23,498 | 420 | 18.26 |
| Twelfth | 7,198 | 22,332 | 4,910 | 27,242 | 555 | 20.55 |
| Thirteenth | 2,571 | 14,117 | 2,661 | 16,778 | 399 | 23.46 |
| Fourteenth | 3,402 | 16,471 | 2,801 | 19,272 | 423 | 22.26 |
| Fifteenth | 2,392 | 12,638 | 4,598 | 17,236 | 260 | 15.29 |
| Sixteenth | 2,533 | 11,344 | 5,057 | 16,401 | 255 | 15.93 |
| Seventeenth | 5,894 | 27,414 | 652 | 28,066 | 543 | 19.39 |
| Eighteenth | 6,796 | 26,155 | 3,805 | 29,960 | 519 | 17.89 |
| Nineteenth | 5,611 | 23,590 | 5,371 | 28,961 | 493 | 17.60 |
| Twentieth | 4,871 | 19,975 | 4,837 | 24,812 | 340 | 14.16 |
| Twenth-first | 6,725 | 21,658 | 768 | 22,426 | 319 | 14.50 |
| Twenty-second | 8,753 | 28,972 | 2,255 | 31,227 | 480 | 15.48 |
| | 107,000 | 431,054 | 75,344 | 506,398 | 9,329 | 18.43 |

V. BURGESS HINES,

*Secretary Board of Health.*

## CITY OF BALTIMORE.—TABLE III.

Deaths by Months According to Cause in the Year 1897.

| Months. | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Croup. | Whooping Cough. | Typhoid Fever. | Diarrhoeal Diseases. | Diarrhoeal Diseases Under Five Years. | Puerperal Fever. | Cancer. | Phthisis. | Other Tuberculous Diseases. | Congenital Debility, *a*. | Diseases of Nervous System. | Heart Disease. | Bronchitis. | Pneumonia. | Diseases of Digestive Organs. | Bright's Disease. | Acute Nephritis. | Accidents, *b*. | Homicide. | Suicide. | Total Deaths. | Total Deaths Under Five Years. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | | 1 | 5 | 44 | 2 | 4 | 7 | 9 | 4 | 1 | 24 | 89 | 8 | 49 | 86 | 56 | 24 | 82 | 25 | 20 | 25 | 21 | | 4 | 745 | 225 |
| February | | 6 | 16 | 1 | 1 | 8 | 10 | 6 | | | 20 | 105 | 7 | 40 | 78 | 25 | 23 | 85 | 18 | 16 | 21 | 20 | | 8 | 688 | 234 |
| March | | 7 | 23 | | | 6 | 7 | 6 | | | 32 | 127 | 10 | 64 | 103 | 47 | 30 | 80 | 41 | 15 | 35 | 24 | | 5 | 865 | 258 |
| April | | 5 | 6 | 23 | | 2 | 6 | 24 | 13 | | 30 | 66 | 10 | 38 | 93 | 33 | 32 | 71 | 29 | 16 | 14 | 18 | | 2 | 674 | 214 |
| May | | 3 | 7 | 17 | | 6 | 6 | 33 | 26 | 1 | 33 | 98 | 8 | 56 | 72 | 43 | 18 | 59 | 32 | 17 | 33 | 16 | 2 | 6 | 686 | 222 |
| June | | 3 | 2 | 17 | | 9 | 8 | 161 | 148 | | 27 | 72 | 8 | 58 | 102 | 43 | 12 | 37 | 35 | 18 | 31 | 24 | 3 | 9 | 825 | 365 |
| July | | 1 | 4 | 8 | | 5 | 13 | 338 | 313 | | 23 | 68 | 10 | 96 | 101 | 37 | 7 | 18 | 34 | 13 | 25 | 11 | 2 | 3 | 961 | 560 |
| August | | | 4 | 23 | | 3 | 36 | 210 | 177 | 1 | 21 | 87 | 3 | 110 | 106 | 37 | 14 | 16 | 39 | 19 | 24 | 29 | | 3 | 914 | 120 |
| September | | 1 | 3 | 24 | 1 | 2 | 36 | 100 | 85 | | 17 | 84 | 13 | 85 | 82 | 33 | 16 | 34 | 31 | 15 | 23 | 33 | 1 | 5 | 960 | 321 |
| October | | | 3 | 59 | 1 | 3 | 27 | 43 | 32 | | 27 | 76 | 6 | 77 | 78 | 33 | 10 | 31 | 28 | 18 | 27 | 27 | 2 | 3 | 692 | 247 |
| November | | 1 | 3 | 51 | 4 | 1 | 19 | 24 | 13 | 1 | 35 | 97 | 4 | 53 | 89 | 60 | 41 | 62 | 27 | 21 | 35 | 33 | 2 | 7 | 815 | 232 |
| December | | 1 | 3 | 42 | 4 | 6 | 17 | 11 | 7 | | 27 | 78 | 10 | 45 | 94 | 31 | 16 | 76 | 25 | 15 | 33 | 42 | 1 | 5 | 704 | 212 |
| | | 16 | 53 | 347 | 13 | 42 | 189 | 970 | 830 | 4 | 316 | 1,047 | 97 | 771 | 1,084 | 478 | 243 | 651 | 364 | 203 | 326 | 298 | 13 | 60 | 9,329 | 3,510 |

*a*. Including premature births, atalectasis, cyanosis, atrophy and inanition.
*b*. Including sun stroke and surgical operations.

V. BURGESS HINES,

*Secretary Board of Health.*

DEATHS ACCORDING TO AGE, SEX AND COLOR.—TABLE III—Continued.

| Sex. | Under 1 Year. | 1 to 2 Years. | 2 to 5 Years. | Total Under 5 Years. | 5 to 10 Years. | 10 to 15 Years. | 15 to 20 Years | 20 to 30 Years. | 30 to 40 Years. | 40 to 50 Years. | 50 to 60 Years. | 60 to 70 Years. | 70 to 80 Years | 80 to 90 Years. | 90 to 110 Years. | Total Deaths | Colored. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Male. .... | 1,384 | 274 | 242 | 1,900 | 162 | 59 | 139 | 369 | 456 | 448 | 448 | 398 | 331 | 125 | 16 | 4,851 | 1,091 |
| Female.. | 1,094 | 272 | 244 | 1,610 | 178 | 82 | 150 | 325 | 367 | 343 | 366 | 433 | 406 | 188 | 30 | 4,478 | 1,075 |
| Totals. | 2,478 | 546 | 486 | 3,510 | 340 | 141 | 289 | 694 | 823 | 791 | 814 | 831 | 737 | 313 | 46 | 9,329 | 2,166 |

CASES OF CONTAGIOUS DISEASES REPORTED.

| Diseases Reported. | First Quarter. | Second Quarter. | Third Quarter. | Fourth Quarter. | Total. |
|---|---|---|---|---|---|
| Diphtheria | 244 | 176 | 160 | 911 | 1,491 |
| Croup | 51 | 16 | 12 | 50 | 129 |
| Measles | 74 | 328 | 62 | 195 | 659 |
| Scarlet fever | 319 | 292 | 177 | 240 | 1,028 |
| Typhoid fever | 48 | 23 | 168 | 124 | 363 |
| Small-pox | | | | | |

| | |
|---|---|
| Total births | 8,800 *c* |
| Total still births | 706 |
| Population estimated | 506,398 |
| Population census | |
| Total marriages | 4,823 |
| Death rate | 18.43 |

*c*. Reports incomplete.

V. BURGESS HINES,

*Secretary Board of Health.*

TABLE IV.

Annual Report of Deaths from all Causes in the City of Baltimore for the Year 1897.

| Causes of Death. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Tot'ls. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A. | | | | | | | | | | | | | |
| Abscess cerebral | 1 | | 1 | | | 1 | | 1 | | | | | 4 |
| " of liver | | 2 | 1 | 6 | 2 | 2 | | 1 | | | 3 | | 17 |
| " of thigh | | | 1 | | | | | | | | | | 1 |
| " of stomach | | | 2 | | | | | | | | | | 2 |
| " of hip | | | | 1 | | | | | | | | | 1 |
| " of neck | | | | 1 | | | | | | | | | 1 |
| " of kidney | | | | 1 | | 1 | | | | | | | 2 |
| " of pelvis | | | | | 1 | | | | | 1 | | 1 | 3 |
| " of face | | | | | | 1 | | | | | | | 1 |
| " of chest | | | | | | | | | 1 | | | | 1 |
| " of jaw | | | | | | | | | 2 | | | | 2 |
| " ovarian | | | | | | | | | 1 | 1 | | | 2 |
| Anaemia | 1 | 1 | | 1 | | | | | | | 3 | | 6 |
| " perniceous | | 1 | 1 | 1 | 1 | 1 | 2 | | | | 2 | 3 | 12 |
| Angina pectoris | 2 | | 4 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 7 | 3 | 27 |
| Appendicitis | 1 | 2 | 7 | 1 | 3 | 4 | 4 | 2 | 1 | 1 | 3 | 4 | 33 |
| Apoplexy | 23 | 19 | 32 | 20 | 15 | 13 | 12 | 19 | 21 | 15 | 27 | 19 | 235 |
| Ascites | 1 | | | | 1 | | | | | | | 1 | 3 |
| Asthma | 12 | 2 | 13 | 6 | 1 | 5 | 3 | 3 | 3 | 4 | 5 | 2 | 59 |
| Albuminuria | 2 | 4 | 2 | 1 | 4 | | 1 | | 1 | 1 | 1 | | 17 |
| Asthenia | 2 | 2 | 5 | 6 | | 2 | 14 | 2 | 7 | 2 | 4 | 6 | 52 |
| Aneurism of aorta | 2 | 2 | 2 | 1 | | | 2 | 4 | 1 | 3 | 2 | 1 | 20 |
| Atelectasis pulmonum | 2 | | 2 | 1 | | 3 | 3 | 3 | 2 | 1 | | | 17 |
| Asphyxia | | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 3 | 4 | 5 | 27 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abortion, criminal | | 1 | | | 1 | | | 1 | | | | | 3 |
| Abortion | | | | | | 1 | 1 | | | | | 1 | 3 |
| Atrophy | | 1 | | 1 | 1 | 2 | | 3 | 2 | | 2 | | 12 |
| Addison's disease | | | | | 1 | | | | | | | | 1 |
| Adynamia | | | | | | 1 | | | | | 1 | | 2 |
| Adenitis | | | | | | | | 1 | | | | | 1 |
| Acromegaly | | | | | | | | 1 | | | | | 1 |
| Amenorrhoea | | | | | | | | | 1 | | | | 1 |
| Arthritis | | | | | | | | | | | 1 | | 1 |
| B. | | | | | | | | | | | | | |
| Bright's diease | 20 | 16 | 15 | 16 | 17 | 18 | 13 | 19 | 15 | 18 | 21 | 15 | 203 |
| Burns | 6 | 3 | 2 | 3 | | 6 | 1 | 7 | 7 | 5 | 5 | 10 | 55 |
| C. | | | | | | | | | | | | | |
| Capillary bronchitis | 11 | 18 | 5 | 7 | 4 | 2 | 3 | | 4 | 6 | 2 | 7 | 69 |
| Carbuncle | 1 | | 2 | | | 2 | | | 1 | | | 1 | 7 |
| Cartarrh, bronchial | 1 | | | | | | | | | | | | 1 |
| Cirrhosis of liver | 7 | 1 | 6 | | 3 | 2 | 2 | 7 | 5 | 5 | 5 | 6 | 49 |
| Congestion of brain | 2 | 3 | 5 | | 2 | 6 | 8 | 3 | 1 | 3 | 2 | 2 | 37 |
| " " lungs | 3 | 6 | 5 | 4 | 3 | 2 | 2 | 3 | 1 | 7 | 2 | 3 | 41 |
| Congestive chill | | | | | | | | | | | | 1 | 1 |
| Consumption of lungs | 89 | 105 | 127 | 66 | 98 | 72 | 68 | 87 | 84 | 76 | 97 | 78 | 1,047 |
| " " bowels | | | | | | | | | | 4 | | | 4 |
| Convulsions | 30 | 22 | 23 | 16 | 15 | 29 | 21 | 20 | 19 | 16 | 20 | 21 | 252 |
| " puerperal | 1 | | | 3 | | 2 | 1 | 1 | 1 | 1 | | 1 | 11 |
| Croup | 2 | 1 | | | | | | | 1 | 1 | 4 | 4 | 13 |
| Circumcision | 1 | | | | | | | | | | | | 1 |
| Cyanosis | 1 | 4 | 5 | 2 | 4 | 2 | 1 | 5 | 1 | 1 | 3 | 6 | 35 |
| Colic hepatic | 2 | | 1 | | | | | | | | | | 3 |
| Child birth | | 1 | 1 | 1 | | | 2 | 1 | | 1 | 2 | 1 | 10 |
| Chorea | | 1 | | | | | 1 | | | | | | 2 |

TABLE IV—Continued.

| Causes of Death. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Tot'ls. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Caries of spine | | 1 | | | | | | | | | | | 1 |
| Cholera infantum | | | 1 | 1 | 7 | 93 | 166 | 89 | 34 | 7 | 2 | 1 | 401 |
| " morbus | | | | 2 | | 2 | 4 | 1 | 2 | 3 | | | 14 |
| Concussion of brain | | | 1 | | 1 | 1 | 1 | 2 | 2 | | | 1 | 9 |
| Coxalgia | | | | 1 | 1 | | | | | | | 1 | 3 |
| Cellulitis | | | | | 1 | | | | | | 1 | | 2 |
| Colica nephretica | | | | | | | | 1 | | | | | 1 |
| Cancer of stomach | 7 | 3 | 3 | 10 | 8 | 6 | 5 | 6 | 5 | 4 | 9 | 6 | 72 |
| " " shoulder | 1 | | | | | | | | | | | | 1 |
| " " nose | 2 | | | | 1 | 1 | | | | | | | 4 |
| " " liver | 2 | 3 | 3 | 3 | 2 | 4 | 5 | | | 3 | 6 | 5 | 36 |
| " " maxillary | 1 | | 3 | 1 | | | | | | | | | 5 |
| " " testicle | 1 | | | | | | | | | | | | 1 |
| " " face | 1 | | | 1 | | | | | | | 1 | | 3 |
| " " breast | 1 | 6 | 6 | 3 | 6 | 3 | 3 | 3 | 5 | 4 | 4 | 4 | 48 |
| " " abdomen | 1 | | | 1 | 1 | | | 1 | | | | | 4 |
| " " uterus | 5 | 5 | 8 | 5 | 9 | 7 | 6 | 6 | 3 | 4 | 8 | 7 | 73 |
| " ovarian | 1 | | 2 | | 1 | | | | 1 | | 1 | | 6 |
| " of lower jaw | 1 | | | | | | | | | | | | 1 |
| " " neck | | 1 | | 1 | | | 1 | | | 1 | | | 4 |
| " " kidneys | | 1 | | 1 | | | 2 | | | | 2 | | 6 |
| " " tongue | | 1 | 1 | | 1 | | | | | 1 | | 1 | 5 |
| " diffused | | | 2 | | | 2 | | | | | 1 | 2 | 7 |
| " of rectum | | | 1 | | | 1 | | | | 3 | | | 5 |
| " " lip | | | 1 | | | | | | | | | | 1 |
| " " bladder | | | 1 | 1 | 1 | | | | | 2 | 2 | | 7 |
| " " penis | | | 1 | | | | | | | | | | 1 |
| " " pancreas | | | | 1 | | | | | | 1 | | | 2 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cancer of pharynx | | | | 1 | | | | | | | | | 1 |
| " " jaw | | | | 1 | | 1 | | | | | 1 | | 3 |
| " " omentum | | | | | 2 | 1 | | | | | | | 3 |
| " " pelvis | | | | | 1 | | | | | | | | 1 |
| " " mouth | | | | | | 1 | | | 1 | | | | 2 |
| " " ear | | | | | | | 1 | | | | | | 1 |
| " " oesophagus | | | | | | | | 1 | | 1 | | | 2 |
| " " cervix | | | | | | | | 1 | 1 | | | | 2 |
| " " side | | | | | | | | 1 | | | | | 1 |
| " " pylorus | | | | | | | | 1 | | 1 | | | 2 |
| " " throat | | | | | | | | 1 | | | | | 1 |
| " " spine | | | | | | | | | 1 | | | | 1 |
| " " cheek | | | | | | | | | | 1 | | | 1 |
| " " bowels | | | | | | | | | | 1 | | | 1 |
| " " leg | | | | | | | | | | | | 1 | 1 |
| " " tonsils | | | | | | | | | | | | 1 | 1 |
| D. | | | | | | | | | | | | | |
| Dentition | 3 | 2 | 3 | 11 | 5 | 14 | 14 | 4 | 7 | 2 | 6 | 4 | 75 |
| Diabetes | 2 | 3 | 6 | 3 | 2 | | 4 | 4 | | 5 | 1 | 1 | 31 |
| Diarrhœa | 5 | 3 | | 11 | 3 | 15 | 23 | 16 | 13 | 5 | 5 | | 99 |
| Diphtheria | 44 | 16 | 23 | 23 | 17 | 17 | 8 | 23 | 24 | 59 | 51 | 42 | 347 |
| Disease of heart | 56 | 25 | 47 | 33 | 43 | 43 | 37 | 37 | 33 | 33 | 60 | 31 | 478 |
| Dropsy, general | 1 | 2 | 2 | 1 | 2 | 1 | 1 | | | 1 | | 2 | 13 |
| " cardiac | | 1 | 2 | | 2 | | | | | 1 | 2 | | 6 |
| Drowned | 2 | 2 | 4 | 6 | 9 | 7 | 6 | 6 | 6 | 1 | 4 | | 56 |
| Dysentery | 2 | 2 | | | 3 | 4 | 11 | 21 | 8 | 2 | 4 | 3 | 57 |
| Delirium tremens | | | | | 1 | | | | | 1 | | | 2 |
| E. | | | | | | | | | | | | | |
| Endocarditis | 4 | 2 | 4 | 4 | 8 | 1 | 3 | 5 | 1 | 1 | 2 | 1 | 36 |
| Erysipelas | 5 | 3 | 4 | 3 | 3 | 2 | | 1 | 2 | | 1 | 4 | 28 |

TABLE IV—Continued.

| Causes of Death. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Tot'ls. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Empyema | 1 | | | | | | | | | | | | 1 |
| Exposure | 1 | 2 | 3 | | | | | | | | | | 6 |
| Enterocolitis | | 1 | 2 | 4 | 4 | 14 | 52 | 35 | 17 | 7 | 3 | | 139 |
| Epistaxis | | 1 | | | | | 1 | 1 | | | | | 3 |
| Epilepsy | | | 2 | | 2 | 2 | 2 | 2 | 1 | 1 | | 1 | 13 |
| Embolism | | | 1 | | 1 | | | | 1 | | | 1 | 4 |
| Exophthalmic goitre | | | 1 | | | | | | | | | | 1 |
| Eczema | | | | 1 | | | 1 | 1 | | | | | 3 |
| Electric shock | | | | | | 2 | 1 | | | | | | 3 |
| Execution | | | | | | | | 1 | | | | | 1 |
| F. | | | | | | | | | | | | | |
| Fever, malarial | 1 | | 1 | | 1 | 2 | 3 | 4 | 1 | 1 | 1 | 1 | 16 |
| " puerperal | 1 | | | | 1 | | | 1 | | | 1 | | 4 |
| " scarlet | 5 | 6 | 7 | 6 | 7 | 2 | 4 | 4 | 3 | 3 | 3 | 3 | 53 |
| " typhoid | 7 | 8 | 6 | 6 | 6 | 8 | 13 | 36 | 36 | 27 | 19 | 17 | 189 |
| " typho-malarial | 1 | | 1 | 2 | 2 | 4 | 1 | 3 | 3 | | 2 | 1 | 20 |
| " intermittent | | 1 | 1 | | 1 | 1 | | | | 2 | 1 | | 7 |
| " remittent | | 1 | 1 | | | 2 | 2 | | 2 | | 1 | 1 | 10 |
| Fracture of skull | 1 | | 2 | 5 | 4 | 2 | 2 | 3 | 3 | 2 | 8 | 7 | 39 |
| " " femur | | | 2 | 2 | | 1 | | 2 | 1 | 1 | | | 9 |
| " " maxillary | | | | | | | 1 | | | | | | 1 |
| " " ribs | | | | | | | | | | 1 | | | 1 |
| " " neck | | | | | | | | | | 2 | | | 2 |
| " " pelvis | | | | | | | | | | 1 | | | 1 |
| " " tibia | | | | | | | | | | 1 | | | 1 |
| " " spine | | | | | | | | | | 1 | | | 1 |
| Fistula in ano | | | | | | | | | | | | 1 | 1 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **G.** | | | | | | | | | | | | | |
| Gout | 1 | | | | | | | | | | 1 | | 2 |
| Gangrene, senile | 1 | 3 | 1 | 4 | | 1 | | 2 | 2 | | 1 | | 15 |
| " of nose | | | | | | | | | 1 | | | | 1 |
| Gastroentesitis | 1 | 1 | 3 | 5 | 7 | 24 | 56 | 39 | 21 | 14 | 4 | 5 | 180 |
| Gall stones | | | 1 | 1 | | | | 1 | | | | | 3 |
| Grave's disease | | | | | | | 1 | | | | | | 1 |
| **H.** | | | | | | | | | | | | | |
| Hernia | | | 1 | | | | | | | | | 1 | 2 |
| " strangulated | 1 | 1 | 4 | 4 | 1 | | 2 | 3 | 1 | 2 | 1 | | 20 |
| " umbilical | 1 | | | | | | | | | | | | 1 |
| Hemorrhage of stomach | 1 | 2 | | | | | | | | 2 | 1 | | 6 |
| " " brain | 4 | 5 | 4 | 5 | 5 | 6 | 10 | 5 | 4 | 8 | 9 | 6 | 71 |
| " " lungs | 1 | | | | 3 | 1 | | | | 2 | 2 | 2 | 11 |
| " post-partum | 2 | 1 | | | | | | | | | | | 3 |
| " of navel | | 1 | | 2 | | | 1 | 2 | 3 | | | | 9 |
| " " bowels | | 1 | | 1 | 1 | 1 | | | | | | 1 | 5 |
| " " spinalcord | | | | 1 | | | | | | | | | 1 |
| " " uterus | | | | | | 1 | | | | | | 1 | 2 |
| Hydrocephalus | | | 1 | | 1 | 4 | 2 | | 2 | 2 | | 2 | 14 |
| Hysterectomy | | | 1 | | | | | | | 1 | | | 2 |
| Haemoptysis | | | 1 | 1 | | | | | | | 1 | | 3 |
| Hysteromyomectomy | | | | 1 | | | | | | | | | 1 |
| **I.** | | | | | | | | | | | | | |
| Inanition | 18 | 16 | 18 | 9 | 15 | 15 | 27 | 17 | 16 | 31 | 19 | 13 | 214 |
| Indigestion | 2 | 2 | | | 1 | 1 | 3 | 1 | 3 | 1 | 2 | | 16 |
| Inflammation of brain | 1 | 3 | 2 | | | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 15 |
| " " bladder | 2 | | 2 | 1 | 2 | 4 | 3 | 1 | | 1 | 3 | 2 | 21 |
| " " bowels | 1 | 3 | 1 | 1 | 9 | 9 | 25 | 9 | 5 | 5 | 7 | 5 | 80 |

TABLE IV—Continued.

| Causes of Death. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Tot'ls. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation of stomach | 3 | 7 | 12 | 9 | 11 | 12 | 14 | 17 | 10 | 10 | 9 | 6 | 120 |
| " " bronchi. | 24 | 23 | 30 | 32 | 18 | 12 | 7 | 14 | 16 | 10 | 41 | 16 | 243 |
| " " kidneys. | 25 | 21 | 35 | 14 | 33 | 31 | 25 | 24 | 23 | 27 | 35 | 33 | 326 |
| " " larynx .. | 3 | 3 | 3 | 1 | 6 | 2 | 1 | 1 | ..... | ..... | 3 | 2 | 25 |
| " " liver ... | 1 | 2 | ..... | ..... | ..... | 1 | 3 | 1 | 2 | ..... | 1 | ..... | 11 |
| Inflammation of peritonaeum..... | 6 | 2 | 6 | 3 | 6 | 9 | 6 | 5 | 5 | 3 | 3 | 6 | 60 |
| Inflammation of pleura .. | 3 | 3 | 2 | 3 | ..... | ..... | 3 | ..... | ..... | 1 | 4 | 2 | 21 |
| " " tonsils .. | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 | 2 | ..... | ..... | 5 |
| Inflammation of pericardium..... | ..... | 6 | ..... | 1 | 3 | 2 | ..... | ..... | 1 | ..... | 5 | 5 | 23 |
| Influenza..... | 10 | 34 | 28 | 9 | 2 | ..... | 1 | 1 | 3 | ..... | ..... | ..... | 88 |
| Intussusception..... | 1 | 4 | 2 | 1 | ..... | ..... | 2 | 2 | 2 | 1 | 1 | ..... | 16 |
| Intemperance ..... | 2 | ..... | 1 | 2 | 1 | 1 | 1 | ..... | ..... | 1 | 1 | 4 | 14 |
| Insanity ..... | ..... | ..... | ..... | ..... | 2 | 1 | ..... | 1 | ..... | ..... | 1 | 1 | 6 |
| Ischuria ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | 1 | ..... | 2 |
| Insolation ..... | ..... | ..... | ..... | ..... | ..... | ..... | 10 | 1 | ..... | ..... | ..... | ..... | 11 |
| Infanticide..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 | 1 |
| J. | | | | | | | | | | | | | |
| Jaundice..... | ..... | 1 | ..... | 2 | 2 | 1 | 2 | ..... | 3 | 1 | 2 | 1 | 15 |
| L. | | | | | | | | | | | | | |
| Laparotomy ..... | 1 | 2 | ..... | 1 | ..... | ..... | ..... | ..... | ..... | 1 | 1 | ..... | 6 |
| Leucocythaemia ..... | ..... | ..... | ..... | ..... | 1 | ..... | 1 | ..... | 1 | ..... | 1 | ..... | 4 |
| Lupus..... | ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | 1 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **M.** | | | | | | | | | | | | | |
| Myocarditis | 1 | | | 1 | | 2 | | | 1 | | | 1 | 5 |
| Myelitis | 1 | | | 3 | | 1 | | | | | | | 6 |
| Marasmus | 12 | 5 | 15 | 12 | 20 | 19 | 45 | 61 | 44 | 27 | 12 | 11 | 283 |
| Measles | 1 | | | 5 | 3 | 3 | 1 | | 1 | | 1 | 1 | 16 |
| Meningitis | 10 | 10 | 13 | 15 | 14 | 15 | 27 | 25 | 17 | 10 | 8 | 17 | 181 |
| " tubercular | 6 | 7 | 8 | 8 | 6 | 3 | 7 | 3 | 9 | 4 | 3 | 6 | 70 |
| " cerebro spinal | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 1 | 1 | 1 | | 22 |
| Murder | | | | | 2 | 3 | 2 | | 1 | 2 | 2 | 1 | 13 |
| Multiple neuritis | | | 2 | | | | | | | 1 | 1 | | 4 |
| Miscarriage | | | 1 | | | | | | | | | | 1 |
| Malformation | | | | 1 | 1 | | | | 1 | | | | 3 |
| Malnutrition | | | | | | | | | | 1 | | | 1 |
| **N.** | | | | | | | | | | | | | |
| Neurasthenia | 1 | | 2 | | | 1 | 1 | 2 | | 1 | 1 | 3 | 12 |
| Noma | | | 1 | | | | | | | 1 | | | 2 |
| Nephrectomy | | | | 1 | | | | | | | | | 1 |
| **O.** | | | | | | | | | | | | | |
| Oedema of glottis | 1 | | | | | | | | | | | | 1 |
| " " lungs | | | | | | | | | | 6 | 1 | | 7 |
| Ovariotomy | 1 | | | 1 | | | 2 | | | 1 | 2 | | 7 |
| Old age | 17 | 23 | 23 | 15 | 17 | 27 | 22 | 31 | 18 | 17 | 24 | 21 | 255 |
| Otorrhœa | | | | | | | 1 | | | | | | 1 |
| **P.** | | | | | | | | | | | | | |
| Paralysis | 15 | 12 | 19 | 33 | 16 | 25 | 10 | 20 | 14 | 15 | 20 | 19 | 218 |
| Pneumonia | 82 | 85 | 80 | 71 | 59 | 37 | 18 | 16 | 34 | 31 | 62 | 69 | 644 |
| " broncho | 9 | 8 | 14 | 8 | 7 | 6 | 1 | 3 | 5 | 3 | 6 | 4 | 74 |

TABLE IV—Continued.

| Causes of Death. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Tot'ls. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pneumonia pleuro | 4 | 1 | 7 | 4 | 1 | 2 | | | 2 | | 3 | 1 | 25 |
| " typhoid | 2 | 8 | 3 | 1 | | | | | | | | 2 | 16 |
| Poison | 3 | 2 | | | 1 | 1 | | 1 | 2 | 1 | 1 | 2 | 14 |
| Premature birth | 16 | 14 | 24 | 13 | 16 | 17 | 20 | 21 | 20 | 17 | 17 | 15 | 210 |
| Puerperal septicaemia | 5 | 2 | | | 1 | | 4 | 2 | | | 1 | 4 | 19 |
| " peritonitis | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 10 |
| " mania | | | | | | | 1 | | | | | | 1 |
| Pharyngitis | 1 | | | | | | | | | | | | 1 |
| Placenta praevia | 1 | | | | | | | 1 | | | | | 2 |
| Progressive locomotor ataxia | | 1 | | | | 1 | | 1 | 2 | 1 | | 1 | 7 |
| Pyaemia | | 1 | 1 | 1 | 1 | | | | 1 | | 1 | | 6 |
| Prolonged labor | | | 2 | | 2 | 1 | | | 2 | | 1 | 1 | 9 |
| Purpura haemorrhagica | | | 2 | | | 1 | | 1 | 1 | | 1 | | 6 |
| Prostatitis | | | | 1 | | | | | 2 | | | | 3 |
| Perityphlitis | | | | | 1 | | | | | | | | 1 |
| Proctitis | | | | | | | | 1 | | | | | 1 |
| Pyosalpinx | | | | | | | | | 1 | | | | 1 |
| R. | | | | | | | | | | | | | |
| Rheumatism | 3 | 4 | 3 | 3 | 2 | 7 | 3 | 3 | 1 | | 4 | 4 | 37 |
| " inflammatory | 1 | | | | | | | | | 1 | 1 | 1 | 4 |
| Rachitis | | | 1 | | | | | | | | | | 1 |
| S. | | | | | | | | | | | | | |
| Stricture of bowels | 5 | | 3 | 2 | 3 | 4 | 3 | 1 | 2 | 5 | 3 | 6 | 37 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stricture of urethra | | | | | 1 | | 1 | | | | 1 | 1 | 4 |
| Scrofula | 2 | | 1 | | 1 | | 1 | | | | 1 | 2 | 8 |
| Softening of brain | 1 | 1 | 1 | 2 | 1 | 4 | 5 | 7 | 1 | | 1 | 1 | 25 |
| Suffocation by illuminating gas | | 1 | 1 | 2 | | | | | 1 | | 3 | | 8 |
| Suffocation by coal gas | | | | | | | 1 | | | | | | 1 |
| Septicaemia | 3 | | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | | 13 |
| Suicide | 4 | 8 | 5 | 2 | 6 | 9 | 3 | 3 | 5 | 3 | 7 | 5 | 60 |
| Syphillis | 2 | 3 | 4 | 1 | 2 | 2 | 3 | 7 | 3 | 3 | 3 | 3 | 36 |
| Scalds | | | 3 | | | 1 | | | 2 | 1 | 1 | 4 | 12 |
| Salpingitis | | | 1 | | | | | | | | | | 1 |
| Spina bifida | | | | | | | | | | | 1 | | 1 |
| T. | | | | | | | | | | | | | |
| Trismus nascentium | 1 | 4 | 1 | | | | 4 | 2 | 1 | 9 | 1 | 5 | 28 |
| Tumor, cerebral | 1 | | 1 | | | | | | 1 | 1 | | | 4 |
| " abdominal | 1 | | 1 | | | 1 | | | | | | | 3 |
| " ovarian | | 1 | 1 | | | | | | 3 | | 1 | 1 | 7 |
| " of spine | | | | 1 | | | | | | | | | 1 |
| " " stomach | | | | | | 1 | | | | | | | 1 |
| " " pelvis | | | | | | | | 1 | | | | | 1 |
| " " eye | | | | | | | | | 1 | | | | 1 |
| Tetanus | | | 3 | 2 | | | 1 | 1 | 1 | | | 1 | 9 |
| Tabes Mesenterica | | | | 2 | | 1 | | | 2 | | | | 5 |
| Trephining skull | | | | 1 | | | | | | | | | 1 |
| U. | | | | | | | | | | | | | |
| Uraemia | 2 | 1 | 6 | 3 | | 4 | 1 | 4 | 3 | 5 | 1 | 1 | 31 |
| Unknown | 2 | 1 | 3 | 1 | 1 | 5 | 2 | 4 | 3 | 3 | 1 | 1 | 27 |
| Ulcer of bowels | | | | 1 | | | 1 | | | | | | 2 |
| " " stomach | | | | 6 | 2 | 3 | | 3 | | 1 | 2 | | 17 |
| " " bladder | | | | | | | | | | | | 1 | 1 |

TABLE IV—Concluded.

| Causes of Death. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V. | | | | | | | | | | | | | |
| Varicella | | | 1 | | | | | | | | | | 1 |
| W. | | | | | | | | | | | | | |
| Whooping cough | 4 | 1 | | 2 | 6 | 9 | 5 | 3 | 2 | 3 | 1 | 6 | 42 |
| Wounds by cars | 3 | 3 | 1 | 2 | 4 | 3 | 1 | 6 | 4 | 2 | 4 | 3 | 36 |
| " crushed | 4 | 4 | 1 | 2 | 2 | 3 | 1 | 2 | 2 | 4 | 4 | 1 | 30 |
| " by fall | 5 | 4 | 7 | 1 | 2 | 4 | 1 | 2 | 8 | 7 | 1 | 5 | 47 |
| " " gunshot | | 1 | | | | | | 3 | | | | | 4 |
| " " pistol shot | | | 3 | | 1 | 1 | | 2 | 3 | 1 | | | 11 |

TABLE V.

| Ages. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Under 1 year | 139 | 155 | 177 | 135 | 136 | 288 | 460 | 305 | 236 | 165 | 151 | 131 | 2,478 |
| Between 1 and 2 years | 40 | 39 | 38 | 38 | 45 | 50 | 70 | 71 | 50 | 39 | 34 | 32 | 546 |
| " 2 " 5 " | 46 | 40 | 43 | 41 | 41 | 27 | 30 | 44 | 35 | 43 | 47 | 49 | 486 |
| Total under 5 years | 225 | 234 | 258 | 214 | 222 | 365 | 560 | 420 | 321 | 247 | 232 | 212 | 3,510 |
| Between 5 and 10 years | 23 | 21 | 30 | 19 | 30 | 29 | 16 | 32 | 24 | 34 | 41 | 41 | 340 |
| " 10 " 15 " | 7 | 6 | 17 | 18 | 8 | 14 | 9 | 11 | 11 | 7 | 16 | 17 | 141 |
| " 15 " 20 " | 29 | 26 | 34 | 25 | 22 | 10 | 22 | 27 | 23 | 20 | 24 | 27 | 289 |
| " 20 " 30 " | 69 | 53 | 73 | 47 | 49 | 58 | 51 | 63 | 58 | 51 | 65 | 57 | 694 |
| " 30 " 40 " | 59 | 75 | 73 | 62 | 75 | 70 | 58 | 75 | 68 | 70 | 99 | 49 | 823 |
| " 40 " 50 " | 78 | 59 | 74 | 47 | 76 | 67 | 53 | 71 | 66 | 60 | 84 | 66 | 791 |
| " 50 " 60 " | 63 | 64 | 95 | 75 | 61 | 62 | 63 | 63 | 63 | 57 | 77 | 73 | 814 |
| " 60 " 70 " | 85 | 65 | 90 | 70 | 61 | 68 | 48 | 71 | 57 | 66 | 77 | 70 | 831 |
| " 70 " 80 " | 71 | 49 | 76 | 67 | 55 | 60 | 58 | 63 | 42 | 57 | 69 | 26 | 737 |
| " 80 " 90 " | 33 | 32 | 42 | 28 | 26 | 21 | 16 | 22 | 20 | 19 | 28 | 26 | 313 |
| " 90 " 100 " | 3 | 4 | 3 | 2 | 1 | 1 | 7 | 6 | 7 | 4 | 3 | 4 | 41 |
| " 100 " 110 " | | | | | | | | | 1 | 2 | | | 3 |
| Above 110 years | | | | | | | 1 | | | | | 1 | 2 |
| Totals | 745 | 688 | 865 | 674 | 686 | 825 | 961 | 914 | 760 | 692 | 815 | 704 | 9,329 |

TABLE V—Continued.

| NATIVITY. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| United States—white males | 221 | 208 | 241 | 196 | 216 | 259 | 340 | 304 | 247 | 245 | 237 | 221 | 2,935 |
| " " females | 213 | 204 | 227 | 193 | 165 | 250 | 273 | 281 | 224 | 191 | 244 | 199 | 2,664 |
| Foreign—white males | 74 | 60 | 85 | 69 | 75 | 63 | 58 | 72 | 68 | 47 | 87 | 67 | 825 |
| " " females | 82 | 53 | 80 | 56 | 49 | 62 | 54 | 57 | 60 | 64 | 66 | 56 | 739 |
| Colored—males | 74 | 92 | 115 | 79 | 89 | 100 | 106 | 104 | 81 | 74 | 97 | 80 | 1,091 |
| " females | 81 | 71 | 117 | 81 | 92 | 91 | 130 | 96 | 80 | 71 | 84 | 81 | 1,075 |
| Totals | 745 | 688 | 865 | 674 | 686 | 825 | 961 | 914 | 760 | 692 | 815 | 704 | 9,329 |
| Still births | 37 | 48 | 56 | 67 | 51 | 57 | 63 | 81 | 50 | 64 | 61 | 71 | 706 |
| Marriages | 386 | 377 | 328 | 423 | 423 | 381 | 384 | 423 | 438 | 437 | 423 | 400 | 8,223 |
| Births (reported) | 608 | 770 | 802 | 698 | 579 | 575 | 779 | 879 | 905 | 640 | 842 | 723 | 8,800 |

Population estimated by Police Census, white, 431,054; colored, 75,344; total, 506,398. Total mortality during the year—United States, white, 5,599; foreign, 1,564; colored, 2,166; total, 9,329. Annual death rate per 1,000, whole population, 18.43; white, 16.61; colored, 28.88. Total births (reported), 8,800; birth rate per 1,000 population, 17.39. Total marriages, 4,823; marriage rate per 1,000 population, 9.53. Total still births, 706.

TABLE VI.

Total Number of Deaths Monthly in Each Ward.

| Wards. | Jan. | Feb. | Mar. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Tot'ls. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| First | 42 | 30 | 37 | 31 | 38 | 40 | 49 | 61 | 39 | 27 | 33 | 38 | 465 |
| Second | 23 | 24 | 23 | 17 | 14 | 33 | 48 | 35 | 45 | 29 | 30 | 23 | 344 |
| Third | 29 | 34 | 35 | 34 | 14 | 37 | 37 | 45 | 26 | 23 | 25 | 19 | 368 |
| Fourth | 33 | 23 | 29 | 27 | 24 | 29 | 33 | 36 | 31 | 16 | 24 | 16 | 321 |
| Fifth | 19 | 21 | 22 | 19 | 20 | 18 | 29 | 29 | 16 | 15 | 19 | 17 | 244 |
| Sixth | 58 | 50 | 97 | 64 | 57 | 70 | 99 | 85 | 69 | 73 | 79 | 59 | 860 |
| Seventh | 51 | 37 | 47 | 26 | 34 | 41 | 46 | 47 | 41 | 42 | 45 | 44 | 501 |
| Eighth | 26 | 34 | 47 | 28 | 29 | 41 | 41 | 40 | 35 | 46 | 37 | 37 | 441 |
| Ninth | 37 | 41 | 48 | 31 | 40 | 45 | 41 | 47 | 39 | 40 | 44 | 38 | 491 |
| Tenth | 25 | 29 | 31 | 19 | 21 | 25 | 24 | 31 | 18 | 23 | 23 | 19 | 288 |
| Eleventh | 36 | 37 | 41 | 35 | 24 | 26 | 48 | 39 | 36 | 36 | 29 | 43 | 420 |
| Twelfth | 50 | 32 | 63 | 48 | 54 | 45 | 58 | 47 | 31 | 44 | 48 | 35 | 555 |
| Thirteenth | 28 | 16 | 46 | 26 | 42 | 34 | 34 | 33 | 29 | 31 | 44 | 36 | 399 |
| Fourteenth | 33 | 25 | 38 | 33 | 39 | 23 | 49 | 46 | 27 | 35 | 41 | 34 | 423 |
| Fifteenth | 17 | 18 | 28 | 28 | 18 | 19 | 28 | 18 | 22 | 17 | 21 | 26 | 260 |
| Sixteenth | 23 | 13 | 26 | 20 | 12 | 35 | 28 | 14 | 17 | 19 | 26 | 22 | 255 |
| Seventeenth | 32 | 32 | 32 | 46 | 45 | 50 | 45 | 55 | 50 | 38 | 75 | 43 | 543 |
| Eighteenth | 39 | 41 | 41 | 26 | 41 | 64 | 57 | 58 | 44 | 37 | 33 | 38 | 519 |
| Nineteenth | 47 | 50 | 41 | 40 | 42 | 46 | 50 | 37 | 41 | 23 | 39 | 37 | 493 |
| Twentieth | 32 | 26 | 23 | 27 | 26 | 27 | 39 | 27 | 34 | 17 | 36 | 26 | 340 |
| Twenty-first | 28 | 24 | 28 | 23 | 23 | 29 | 33 | 28 | 37 | 22 | 21 | 23 | 319 |
| Twenty-second | 37 | 51 | 42 | 26 | 29 | 48 | 45 | 56 | 33 | 39 | 43 | 31 | 480 |
| Totals | 745 | 688 | 865 | 674 | 686 | 825 | 961 | 914 | 760 | 692 | 815 | 704 | 9,329 |

TABLE VII.

| 1897. BIRTHS. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| White—Males | 278 | 304 | 342 | 308 | 232 | 247 | 337 | 375 | 391 | 293 | 370 | 256 | 3,733 |
| " Females | 249 | 346 | 338 | 282 | 224 | 232 | 327 | 362 | 366 | 243 | 341 | 339 | 3,649 |
| Total | 527 | 650 | 680 | 590 | 456 | 479 | 664 | 737 | 757 | 536 | 711 | 595 | 7,382 |
| Colored—Males | 40 | 61 | 61 | 56 | 77 | 53 | 62 | 80 | 72 | 52 | 70 | 68 | 762 |
| " Females | 41 | 59 | 61 | 52 | 46 | 43 | 53 | 62 | 76 | 52 | 61 | 60 | 666 |
| Total | 81 | 120 | 122 | 108 | 123 | 96 | 115 | 142 | 148 | 104 | 131 | 128 | 1,418 |
| Total births reported | 608 | 770 | 802 | 698 | 579 | 575 | 779 | 879 | 905 | 640 | 842 | 723 | 8,800 |
| Illegitimate white | 23 | 16 | 14 | 10 | 30 | 17 | 18 | 17 | 27 | 11 | 25 | 14 | 222 |
| " colored | 19 | 13 | 29 | 25 | 52 | 31 | 17 | 47 | 47 | 25 | 41 | 47 | 423 |
| Total illegitimate | 42 | 59 | 43 | 35 | 82 | 48 | 35 | 64 | 74 | 36 | 66 | 61 | 645 |

## TABLE VIII.

Showing Deaths During the Year 1897 in Monthly Periods, by Sex, Color and Nativity.

| Months. | Native White. | | | Foreign White. | | | White. | | | Colored. | | | Totals. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Males. | Females. | Totals. | Males. | Females. | Totals. | Males. | Females. | Totals. | Males. | Females. | Totals. | Males. | Females. | Totals. |
| January.. | 221 | 213 | 434 | 74 | 82 | 156 | 295 | 295 | 590 | 74 | 81 | 155 | 369 | 376 | 745 |
| February. | 208 | 204 | 412 | 60 | 53 | 113 | 268 | 257 | 525 | 92 | 71 | 163 | 360 | 328 | 688 |
| March..... | 241 | 227 | 468 | 85 | 80 | 165 | 326 | 307 | 633 | 115 | 117 | 232 | 441 | 424 | 865 |
| April..... | 196 | 193 | 389 | 69 | 56 | 125 | 265 | 249 | 514 | 79 | 81 | 160 | 344 | 330 | 674 |
| May..... | 216 | 165 | 381 | 75 | 49 | 124 | 291 | 214 | 505 | 89 | 92 | 181 | 380 | 306 | 686 |
| June..... | 259 | 250 | 509 | 63 | 62 | 125 | 322 | 312 | 634 | 100 | 91 | 191 | 422 | 403 | 825 |
| July..... | 340 | 273 | 613 | 58 | 54 | 112 | 398 | 327 | 725 | 106 | 130 | 236 | 504 | 457 | 961 |
| August... | 304 | 281 | 585 | 72 | 57 | 129 | 376 | 338 | 714 | 104 | 96 | 200 | 480 | 434 | 914 |
| September | 247 | 224 | 471 | 68 | 60 | 128 | 315 | 284 | 599 | 81 | 80 | 161 | 396 | 364 | 760 |
| October.. | 245 | 191 | 436 | 47 | 64 | 111 | 292 | 255 | 547 | 74 | 71 | 145 | 366 | 326 | 692 |
| November | 237 | 244 | 481 | 87 | 66 | 153 | 324 | 310 | 634 | 97 | 84 | 181 | 421 | 394 | 815 |
| December. | 221 | 199 | 420 | 67 | 56 | 123 | 288 | 255 | 543 | 80 | 81 | 161 | 368 | 336 | 704 |
| Totals.. | 2,935 | 2,664 | 5,599 | 825 | 739 | 1,564 | 3,760 | 3,403 | 7,163 | 1,091 | 1,075 | 2,166 | 4,851 | 4,478 | 9,329 |

V. BURGESS HINES, *Secretary Board of Health.*

## TABLE IX.

Comparison of Deaths from All Causes, and from Specified and Contagious Diseases, for Twenty-one Years, from 1877 to 1897 inclusive.

| Years. | Population. | Measles. | Scarlet Fever. | Typhoid Fever. | Croup. | Diphtheria. | Whooping Cough. | Dysentery. | Cholera Infantum. | Children Under 5 Yrs. | Total Mortality. All Causes. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1877 | 311,275 | 161 | 597 | 235 | 157 | 455 | 297 | 52 | 616 | 4,584 | 7,910 |
| 1878 | 318,182 | 11 | 141 | 176 | 149 | 303 | 63 | 41 | 343 | 3,372 | 6,733 |
| 1879 | 325,139 | 43 | 367 | 166 | 186 | 298 | 80 | 60 | 475 | 3,385 | 7,618 |
| 1880 | 332,313 | 12 | 400 | 196 | 173 | 293 | 148 | 57 | 503 | 3,602 | 8,043 |
| 1881 | 339,649 | 162 | 215 | 197 | 242 | 639 | 93 | 56 | 558 | 3,919 | 8,116 |
| 1882 | 347,142 | 71 | 179 | 165 | 222 | 707 | 43 | 62 | 390 | 3,755 | 8,923 |
| 1883 | 354,832 | 130 | 334 | 126 | 201 | 591 | 59 | 52 | 473 | 4,062 | 9,380 |
| 1884 | 362,668 | 228 | 104 | 151 | 127 | 343 | 120 | 43 | 496 | 3,643 | 8,293 |
| 1885 | 370,696 | 16 | 68 | 155 | 148 | 252 | 63 | 60 | 498 | 3,228 | 8,153 |
| 1886 | 378,903 | 201 | 32 | 150 | 128 | 190 | 91 | 84 | 485 | 3,565 | 8,339 |
| 1887 | 387,300 | 85 | 36 | 156 | 153 | 149 | 98 | 137 | 567 | 3,477 | 8,372 |
| 1888 | 395,899 | 176 | 44 | 161 | 98 | 118 | 112 | 167 | 654 | 3,881 | 8,936 |
| 1889 | 404,498 | 11 | 71 | 191 | 53 | 155 | 54 | 156 | 572 | 3,505 | 8,703 |
| 1890 | 413,671 | 248 | 42 | 247 | 45 | 274 | 100 | 212 | 507 | 4,117 | 10,198 |
| 1891 | 426,917 | 16 | 128 | 150 | 44 | 350 | 103 | 118 | 531 | 3,910 | 10,073 |
| 1892 | 440,163 | 120 | 258 | 193 | 47 | 381 | 32 | 109 | 661 | 4,443 | 10,582 |
| 1893 | 453,409 | 39 | 36 | 224 | 25 | 185 | 60 | 62 | 444 | 3,604 | 9,554 |
| 1894 | 466,655 | 3 | 85 | 222 | 33 | 198 | 112 | 72 | 440 | 3,761 | 9,486 |
| 1895 | 479,907 | 68 | 59 | 173 | 45 | 265 | 68 | 70 | 510 | 4,026 | 10,301 |
| 1896 | 493,147 | 27 | 31 | 188 | 32 | 249 | 87 | 82 | 412 | 3,728 | 9,919 |
| 1897 | 506,398 | 16 | 53 | 189 | 13 | 347 | 42 | 57 | 401 | 3,510 | 9,329 |

V. BURGESS HINES, *Secretary Board of Health.*

TABLE X.

SHOWING TOTAL DEATHS, AND DEATHS FROM ZYMOTIC DISEASES FOR TWENTY-THREE YEARS, WITH PERCENTAGE OF DEATHS TO TOTAL MORTALITY FROM 1875 TO 1897, INCLUSIVE.

| | 1875. | 1876. | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total deaths, exclusive of still births | 7,258 | 7,498 | 7,910 | 6,733 | 7,618 | 8,043 | 8,816 | 8,923 | 9,380 | 8,035 | 8,153 | 8,339 | 8,244 | 8,936 | 9,365 | 10,198 | 10,073 | 10,582 | 9,554 | 9,486 | 10,301 | 9,919 | 9,329 |
| Death rate | 22.33 | 22.38 | 22.60 | 18.44 | 19.30 | 20.41 | 22.37 | 21.81 | 22.93 | 20.77 | 19.55 | 19.98 | 19.16 | 17.87 | 17.40 | 22.41 | 22.14 | 23.25 | 20.99 | 20.84 | 20.76 | 19.60 | 18.43 |
| Still births | 560 | 588 | 538 | 655 | 620 | 636 | 651 | 677 | 701 | 746 | 650 | 718 | 669 | 694 | 784 | 800 | 811 | 813 | 770 | 721 | 666 | 678 | 706 |
| Rate of still births to 1,000 inhabitants | 1.70 | 1.75 | 1.53 | 1.79 | 1.57 | 1.61 | 1.65 | 1.71 | 1.71 | 1.82 | 1.59 | 1.72 | 1.60 | 1.63 | 1.84 | 1.75 | 1.78 | 1.78 | 1.69 | 1.58 | 1.34 | 1.33 | 1.39 |
| DEATHS FROM ZYMOTIC DISEASES. | | | | | | | | | | | | | | | | | | | | | | | |
| Diphtheria and croup | 238 | 249 | 557 | 452 | 384 | 476 | 881 | 929 | 792 | 470 | 400 | 318 | 302 | 216 | 206 | 319 | 394 | 428 | 210 | 231 | 310 | 281 | 360 |
| Fever, scarlet | 519 | 562 | 447 | 141 | 80 | 400 | 215 | 179 | 334 | 104 | 68 | 32 | 36 | 44 | 71 | 42 | 128 | 258 | 36 | 85 | 59 | 31 | 53 |
| " typhoid | 187 | 176 | 201 | 175 | 367 | 196 | 197 | 165 | 126 | 151 | 155 | 150 | 156 | 161 | 191 | 247 | 150 | 193 | 224 | 222 | 173 | 188 | 189 |
| " crebro spinal | 53 | 25 | 17 | 26 | 1 | 26 | 37 | 38 | 42 | 20 | 24 | 24 | 19 | 22 | 18 | 31 | 18 | 38 | 59 | 26 | 27 | 32 | 22 |
| Whooping cough | 78 | 39 | 303 | 63 | 80 | 148 | 93 | 43 | 59 | 120 | 63 | 91 | 98 | 112 | 54 | 100 | 103 | 32 | 60 | 112 | 68 | 87 | 42 |
| Measles | 15 | 43 | 151 | 11 | 43 | 12 | 75 | 71 | 130 | 228 | 16 | 201 | 85 | 176 | 11 | 248 | 16 | 120 | 39 | 3 | 68 | 27 | 16 |
| Small-pox | 1 | | | 1 | 1 | 1 | 11 | 551 | 633 | 1 | | 1 | | | | | | | | | | | |
| Total zymotic diseases | 1,091 | 1,094 | 1,676 | 869 | 956 | 1,259 | 1,509 | 1,976 | 2,116 | 1,094 | 726 | 817 | 696 | 731 | 551 | 987 | 809 | 1,069 | 628 | 679 | 705 | 646 | 682 |
| Percentage of zymotic deaths to total mortality | 15.03 | 14.59 | 21.18 | 12.90 | 12.53 | 15.65 | 17.11 | 22.14 | 22.25 | 13.51 | 8.90 | 9.78 | 8.46 | 8.18 | 5.88 | 9.67 | 8.03 | 10.10 | 6.57 | 7.15 | 6.84 | 6.51 | 7.31 |

V. BURGESS HINES, *Secretary Board of Health.*

TABLE XI.

Showing the Number of Deaths Annually from Typhoid and Typho-Malarial Fevers Combined During a Period of Ten Years, from 1888 to 1897 inclusive, Male and Female, White and Colored, in the City of Baltimore.

| Year. | Estimated Population. | White. | | | Colored. | | | Total Males. | Total Females. | Total Deaths. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Males. | Females. | Total. | Males. | Females. | Total. | | | |
| 1888..... | 395,899 | 88 | 90 | 178 | 80 | 14 | 94 | 168 | 104 | 272 |
| 1889..... | 404,498 | 88 | 93 | 181 | 23 | 20 | 43 | 111 | 113 | 224 |
| 1890..... | 413,671 | 135 | 109 | 244 | 26 | 31 | 57 | 161 | 140 | 301 |
| 1891..... | 426,917 | 82 | 75 | 157 | 13 | 19 | 32 | 95 | 94 | 189 |
| 1892..... | 440,163 | 90 | 102 | 192 | 19 | 15 | 34 | 109 | 117 | 226 |
| 1893..... | 453,409 | 108 | 120 | 228 | 11 | 16 | 27 | 119 | 136 | 255 |
| 1894..... | 466,655 | 103 | 104 | 207 | 23 | 27 | 50 | 126 | 131 | 257 |
| 1895..... | 479,907 | 82 | 75 | 157 | 21 | 14 | 35 | 103 | 89 | 192 |
| 1896..... | 493,147 | 93 | 81 | 174 | 16 | 14 | 30 | 109 | 95 | 204 |
| 1897..... | 506,398 | 99 | 76 | 175 | 20 | 14 | 34 | 119 | 90 | 209 |

V. BURGESS HINES, *Secretary Board of Health.*

TABLE XII.

Salary Account for the Year 1897. Appropriation, $42,000.

| *Dr.* | | | *Cr.* |
|---|---|---|---|
| To 16 warrants on Comptroller..... | $45,647 74 | By 1 voucher—January, V. B. Hines..... | $2,691 59 |
| | | " 1 " " post-mortems... | 83 33 |
| | | " 1 " " " ... | 41 67 |
| | | " 1 " " D. Bruce..... | 25 00 |
| | | " 1 " " G. F. Reukert... | 650 00 |
| | | " 1 " February, V. B. Hines..... | 3,072 58 |
| | | " 1 " March, V. B. Hines..... | 4,863 72 |
| | | " 1 " April, V. B. Hines..... | 3,246 58 |
| | | " 1 " May, V. B. Hines..... | 3,246 58 |
| | | " 1 " June, V. B. Hines..... | 4,921 79 |
| | | " 1 " July, V. B. Hines..... | 3,246 58 |
| | | " 1 " August, V. B. Hines..... | 3,246 58 |
| | | " 1 " September, V. B. Hines.... | 4,921 79 |
| | | " 1 " October, V. B. Hines..... | 3,246 58 |
| | | " 1 " November, V. B. Hines.... | 3,246 58 |
| | | " 1 " December, V. B. Hines .... | 4,896 79 |
| To 16 warrrants on Comptroller... ..... | $45,647 74 | 16 | $45,647 74 |
| Deficiency... ..... | 3,647 74 | Deficiency ..... | 3,647 74 |
| | $42,000 00 | | $42,000 00 |

V. BURGESS HINES, *Secretary Board of Health.*

TABLE XIII.—General Health account for the Year 1897. Appropriation, $13,000.

| | *Dr.* | | | *Cr.* |
|---|---|---|---|---|
| To 441 warrants on Comptroller | $11,473 93 | By 15 vouchers | Hire, horses, harness, etc. | $1,485 00 |
| | | " 2 " | Cleaning sinks | 168 00 |
| | | " 3 " | Watchman at dumps | 45 00 |
| | | " 21 " | Digging trenches | 187 00 |
| | | " 6 " | Shell lime | 74 00 |
| | | " 5 " | C. & P. Telephone Co. | 499 35 |
| | | " 18 " | Subscriptions, etc | 60 07 |
| | | " 16 " | Rep'rs carr'ges & wagons. | 366 60 |
| | | " 36 " | Disinfectants and haul'g. | 696 45 |
| | | " 2 " | Expenses on water shed | 131 68 |
| | | " 48 " | Extra postage | 91 94 |
| | | " 33 " | Postage stamps and cards. | 410 00 |
| | | " 13 " | Vaccine virus | 924 40 |
| | | " 12 " | Coffins for city | 1,020 75 |
| | | " 3 " | Typewriting and Printing Reports | 214 77 |
| | | " 18 " | Care of sick, med'ne, etc. | 577 39 |
| | | " 2 " | Horse and wagon, plumbing inspectors | 380 00 |
| | | " 36 " | Sundry bills | 377 91 |
| | | " 42 " | Livery bills | 734 22 |
| | | " 26 " | Expense of Morgue | 324 56 |
| | | " 64 " | " of laboratories | 1,432 52 |
| | | " 12 " | Rent, 1330 Philpot street. | 144 00 |
| | | " 1 " | Small-pox expenses | 24 50 |
| | | " 7 " | Isolation hospital | 1,103 82 |
| To 441 warrants on Comptroller | $11,473 93 | 441 | | $11,473 93 |
| " unexpended balance | 1,526 07 | By unexpended balance | | 1,526 07 |
| | $13,000 00 | | | $13,000 00 |

V. BURGESS HINES, *Secretary Board of Health.*

TABLE XIV.

Account for the Removal of Refuse from Packing Houses for 1897. Appropriation, $5,000.

| | *Dr.* | | | *Cr.* |
|---|---|---|---|---|
| To 2 warrants on Comptroller..... ..... | $5,000 00 | By 1 voucher—M. W. Adams..... ..... | | $2,916 67 |
| | | " 1 " M. W. Adams..... | | 2,083 33 |
| | $5,000 00 | | 2 | $5,000 00 |

V. BURGESS HINES, *Secretary Board of Health.*

## TABLE XV.

Salary Account City Annex for 1897. Appropriation, $3,800.00.

| | *Dr.* | | *Cr.* |
|---|---|---|---|
| To 12 warrants on Comptroller | $3,782 64 | By 1 voucher—January, V. B. Hines | $249 44 |
| | | " 1 " February, V. B. Hines | 266 64 |
| | | " 1 " March, V. B. Hines | 416 68 |
| | | " 1 " April, V. B. Hines | 266 64 |
| | | " 1 " May, V. B. Hines | 266 64 |
| | | " 1 " June, V. B. Hines | 416 68 |
| | | " 1 " July, V. B. Hines | 266 64 |
| | | " 1 " August, V. B. Hines | 266 64 |
| | | " 1 " September, V. B. Hines | 416 68 |
| | | " 1 " October, V. B. Hines | 266 64 |
| | | " 1 " November, V. B. Hines | 266 64 |
| | | " 1 " December, V. B. Hines | 416 68 |
| To 12 warrants on Comptroller | $3,782 64 | | $3,782 64 |
| To unexpected balance | 17 36 | By unexpected balance | 17 36 |
| | $3,800 00 | | $3,800 00 |

V. BURGESS HINES, *Secretary Board of Health.*

## TABLE XVI.

Quarantine Hospital Account for 1897. Appropriation $23,700.

| | | | | | |
|---|---|---|---|---|---|
| | *Dr.* | | | | *Cr.* |
| To 131 Warrants on Comptroller | $23,250 28 | By 12 | Vouchers | Salaries | $12,145 00 |
| | | " 1 | " | Building wharf | 788 98 |
| | | " 11 | " | Tug *Anna Belle* | 6,600 00 |
| | | " 11 | " | Market supplies | 1,118 94 |
| | | " 5 | " | Clothing patients | 48 30 |
| | | " 11 | " | Engineers' supplies | 271 26 |
| | | " 15 | " | Repairs, Tug *Higeia* | 460 84 |
| | | " 10 | " | Ice for hospital | 139 30 |
| | | " 2 | " | Medicines | 25 35 |
| | | " 11 | " | Coal for *Higeia* | 375 00 |
| | | " 1 | " | Coal for hospital | 199 00 |
| | | " 11 | " | Groceries | 626 08 |
| | | " 13 | " | Farming implements and seed | 105 10 |
| | | " 8 | " | Stove work and furniture | 60 65 |
| | | " 2 | " | Lumber, etc | 23 84 |
| | | " 2 | " | Flags | 39 99 |
| | | " 4 | " | Feed | 194 20 |
| | | " 1 | " | Sundry small bills | 28 45 |
| To 131 Warrants on Comptroller | $23,250 28 | 131 | | | $23,250 28 |
| " unexpended balance | 449 72 | By unexpended balance | | | 449 72 |
| | $23,700 00 | | | | $23,700 00 |

V. BURGESS HINES, *Secretary Board of Health.*

## TABLE XVII.

Statement of Appropriations to, Expenditures by and Unexpended Balances and Deficiencies of the Health Department for the Year 1897.

*Appropriations.*

| | |
|---|---|
| Salaries | $42,000 00 |
| General health | 13,000 00 |
| Quarantine Hospital | 23,700 00 |
| Removal of canning-house refuse | 5,000 00 |

*Expenditures.*

| | |
|---|---|
| Salaries | 45,647 74 |
| General health | 11,473 93 |
| Quarantine Hospital | 23,250 28 |
| Removal of canning-house refuse | 5,000 00 |

*Unexpended Balances.*

| | |
|---|---|
| General health | 1,526 07 |
| Quarantine Hospital | 449 72 |
| Salaries, City Annex | 17 36 |

*Deficiency.*

| | |
|---|---|
| Salaries | 3,647 74 |

V. BURGESS HINES, *Secretary Board of Health.*

# REPORT

— OF THE —

# Assistant Commissioner of Health.

# REPORT.

BALTIMORE, January 3, 1898.

*James F. McShane, M.D., Commissioner of Health:*

SIR: I respectfully submit the following report with tables annexed, of work accomplished by the Health Department for the year ending December 31, 1897.

The Sanitary Inspectors have performed their duties intelligently, thoroughly and satisfactorily. They have, at all times, been prompt and diligent in responding to and executing the requirements of all calls.

Table A will show that nineteen thousand nine hundred and twelve notices to abate nuisances have been issued. An increase of five thousand seven hundred and seventy-six as compared with the preceding year.

By the directions and supervision of this department, seven thousand eight hundred and ninety-one mattresses were taken from immigrant steamships and destroyed.

The Disinfectors are deserving of great credit for the faithful and efficient manner in which they have done their work. Nine hundred and thirty-five premises have been fumigated.

The Vaccine Physicians have performed their work efficiently and satisfactorily, which is given in detail in table D.

Twelve thousand nine hundred and five vaccinations were made, and thirty-three thousand seven hundred and thirty-three calls. An increase of five thousand three hundred and fifty-six over the year 1896.

I regret to report that the joint privy-well still exists, and, with the so called wells or "holes in the ground" are frequently the cause of great nuisances. It is true a prohibitory ordinance may be enacted, but the difficulties attending these faulty and imperfect

structures will not likely be overcome until we obtain a proper system of sewerage.

I would call attention to the crowded condition of our public schools, as a matter that needs most serious consideration and the promptest relief possible. That the number of buildings, their arrangement and their capacity, is inadequate and insufficient for the number of pupils now attending the public schools in this city is evident from the careful and satisfactory examinations made by the Sanitary Inspectors of this deparrment during the past year. From these examinations it has been found that the breathing space of the pupils in a majority of our schools is far below that required by law in the sweat shops and in other places of labor, which is from four hundred to five hundred cubic feet per individual. In the schools examined by our Inspectors, the breathing space per scholar in many instances was found to be below one hundred cubic feet, while in some rooms it was as low as fifty-four cubic feet per scholar. This is a very serious matter when we con sider the importance of the health of our children. If they cannot be supplied with a sufficient amount of pure air during their hours of study and confinement in the school rooms, they will of necessity become dwarfed mentally and physically, in proportion to the amount of vitiated air they are compelled to breathe. As air and sunshine are essential to the life and beauty of the plant, so is the life, health and energy of the human being dependent upon pure air. If we desire an intelligent, vigorous and prosperous people to compose the population of our city, we must be vigilant in protecting and maintaining the health of our children.

No child can possess a mind capable of grasping and understanding all that is now offered it in the public schools under the circumstances that usually attend the crowded class-room. Teacher and child suffer alike from having to breathe impure air during the long time they are engaged in school, and many are the disadvantages attending the efforts of the teachers to advance the children placed under their care. The class grows dull and inattentive, the teacher becomes sick and tired of her duties long before the hour arrives to release her from the insanitary surroundings. Hence, the work does not go on as it should, and the tax-

payers are not by any means receiving full benefit for the money invested. The remedy for this condition of affairs evidently is to increase the number of our school buildings, or to enlarge the ones we now have.

As ground is very expensive in this city, and the fund for schools limited, I would suggest that the school buildings of two stories be enlarged to three or four stories in height, and the increasing of their capacity in every way possible, if in the opinion of the Inspector of Buildings the foundations will admit of it. A school architect should be appointed, whose duty it shall be to plan and superintend the construction, the rebuilding and remodelling of all buildings used for school purposes.

To obviate the objection to buildings of three or four stories there should be wide and ample stairways and plenty of cloak-rooms provided on every floor. Fire escapes may be added, all modern improvements enjoyed, and money saved by not having to buy extra ground.

The majority of our school buildings now in use are only two-story structures with ceilings much lower than the more modern, whose planning and construction have been better and something more in accord with sanitary measures.

I think in most cases the old buildings can with safety be raised to three stories, and in many instances to four stories. Then, while this is being done, the ceilings of all the departments can be raised to the required height to secure proper ventilation and breathing capacity.

I would also suggest the appointment of a Commission, composed of the Board of Health, the President of the School Board, and the Inspector of Buildings, who shall be authorized and whose duty it shall be to select the site or location of all new buildings, to decide which shall be rebuilt, remodelled, enlarged or changed in any way, and to what extent, and to look after the sanitary condition of the school buildings and their surroundings.

I also recommend the paving and repaving of all alleys with the best kind of smooth pavement as the most important means of protection to public health. From a standpoint of health I contend that no city can maintain proper sanitary conditions so

long as the cobblestone is used as an article of paving in the alleys and narrow streets. For just so long as we continue to use such imperfect paving we will have filthy alleys, full of holes and ruts, continually ready for the absorption of impurities, and for the growth and multiplication of the germs of disease.

Alleys and lanes into which drain the waste water, etc., from kitchens, and into which is carried the garbage from yards, should have smooth and durable paving, so that the natural process of cleaning may be as perfect as possible by the storm water washing everything into the sewer.

It is more important to have the alleys in the rear of our houses paved with a smooth material than the large streets and thoroughfares on which our houses front.

I therefore suggest that the Mayor and City Council be urged to make an appropriation for and pass an ordinance authorizing and requiring the City Commissioner to commence, as soon as possible, a systematic paving and re-paving of all alleys with improved material. Also, authorizing a Commission, composed of the Board of health, City Commissioner, and Commissioner of Street Cleaning, under whose supervision the work shall be done. Whose duty it shall be to designate the kind of material to be used in paving alleys, to inspect, or to have inspected daily the work as it is being done, and to decide what alleys are most in need of it, and which should be done first.

Thus the good work should go on till all our alleys are as smooth and clean as those of our sister city Philadelphia. Of course, the necessary appropriation should be made and set aside from year to year for this work till the desired result is accomplished.

The department desires to compliment and heartily thank the Police Department for its valuable assistance in enforcing the laws.

To all who have been connected with this department during the past year I desire to express my gratitude for their many courtesies and acts of kindness.

I wish to thank you personally for your constantly cheerful and kindly disposition toward me.

I am, very respectfully, your humble servant,

J. TYLER SMITH,
*Assistant Commissioner of Health.*

# TABLES.

## TABLE A.

### Number of Nuisances Examined and Abated by Sanitary Inspectors During the Year 1897.

| | |
|---|---|
| Alleys cleaned | 343 |
| " repaired | 1,229 |
| " paved | 255 |
| Premises cleaned | 95 |
| " disinfected | 935 |
| " referred to Inspector of Buildings | 6 |
| Vacant lots drained, filled and cleaned | 148 |
| Manure pits constructed | 86 |
| " " reconstructed and repaired | 52 |
| " " cleaned | 66 |
| Drain pipes reconstructed and repaired | 108 |
| " " cleaned | 45 |
| " " laid | 11 |
| Yards cleaned | 222 |
| " drained | 176 |
| " repaired | 291 |
| " paved | 22 |
| Privies inspected and ordered cleaned | 3,224 |
| " reconstructed | 367 |
| " ventilated | 41 |
| Water closets repaired and ventilated | 148 |
| Excavating apparatus inspected | 107 |
| Cellars drained or filled | 285 |
| Cellars cleaned | 103 |
| Slaughter houses inspected | 78 |
| Stables cleaned and reconstructed | 48 |
| Water pipes and hydrants repaired | 118 |
| Gutters repaired | 157 |
| Rain spouts reconstructed | 104 |
| Grass and weeds removed from gutters | 63 |
| Ice ponds examined and permits granted | 5 |
| Ice ponds examined and permits refused | 8 |
| Tenements ordered cleaned and whitewashed | 13 |
| Samples of water collected for analysis | 63 |
| Number of cases of infectious diseases examined | 4,071 |
| Number of bacterial cultures made | 428 |
| Causes of deaths examined | 2 |
| Steamships examined | 47 |
| Mattresses destroyed from steamships | 7,891 |
| Scow loads of refuse, etc., removed from steamships and destroyed | 41 |
| Sweat shops examined | 14 |
| Streets graded and paved | 16 |
| " repaired | 33 |
| " cleaned | 21 |
| School buildings inspected | 40 |
| Complaints examined and no nuisance found to exist | 433 |
| Miscellaneous | 632 |
| Privy wells filled | 68 |

## TABLE B.

Showing Number of Notices, Orders, Etc., Issued from the Health Department, and Number of Official Letters Written and Received During the Year 1897.

| | |
|---|---|
| Number of notices issued to clean privies | 49,268 |
| " " " " " " repair, repave and pave yards | 1,274 |
| Number of notices issued to bail, drain or fill cellars | 1,206 |
| " " " " " grade, pave and repair alleys | 3,683 |
| " " " " " drain or fill lots | 914 |
| " " " " " reconstruct and ventilate water closets and privies | 1,333 |
| Number of notices issued to clean grass and weeds from gutters, etc | 944 |
| Number of notices issued to clean and properly construct manure pits | 795 |
| Number of notices issued to repair hydrants and water-pipes | 624 |
| " " " " " clean and reconstruct stables | 516 |
| " " " " " construct proper drainage and repair drain-pipes | 933 |
| Number of notices issued to disinfect premises | 1,029 |
| " " " " " reconstruct and repair defective plumbing | 289 |
| Number of miscellaneous notices | 634 |
| Total | 63,546 |
| Number of permits issued to clean privies by day | 83,895 |
| " " " " " " at night | 223 |
| Total | 84,118 |
| Number of official letters written | 1,615 |
| " " " " received | 1,260 |
| " " legal proceedings instituted for non-compliance with notices | 52 |

TABLE C.

Showing the Amount of Night Soil Delivered at Foley's and Winan's Dumps for the Year Ending December 31, 1897.

| Foley's Wharf, Canton. | Number of Loads. | Number of Gallons. | Winan's Wharf, Spring Gardens. | Number of Loads. | Number of Gallons. |
|---|---|---|---|---|---|
| January | 173 | 34,600 | January | 2,967 | 593,400 |
| February | 285 | 57,000 | February | 3,341 | 668,200 |
| March | 2,781 | 556,200 | March | 9,714 | 1,942,800 |
| April | 3,147 | 629,400 | April | 10,572 | 2,114,400 |
| May | 2,478 | 495,600 | May | 6,509 | 1,301,800 |
| June | 2,212 | 442,200 | June | 6,793 | 1,358,600 |
| July | 3,214 | 642,800 | July | 7,584 | 1,516,800 |
| August | 2,731 | 546,200 | August | 7,254 | 1,450,800 |
| September | 2,927 | 585,400 | September | 7,873 | 1,574,600 |
| October | 2,426 | 485,200 | October | 5,841 | 1,168,200 |
| November | 1,205 | 241,000 | November | 4,877 | 975,400 |
| December | 804 | 160,890 | December | 4,251 | 850,200 |
| Total | 24,383 | 4,876,400 | | 77,576 | 15,515,200 |

Total number of loads delivered at both dumps.... 101,959
Total number of gallons delivered at both dumps... 20,391,800

TABLE D.—Report of the Vaccine Physicians for the Year Ending December 31, 1897.

| Wards. | Physicians. | Offices or Residences. | Number of Calls. | Number of Vaccinations. | Primary. | Secondary. | Successful. | Failed. | Not Heard From. | Males. | Females. | White. | Colored. | Revaccinations. | Certificates of Vaccinations Given. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1st | Chas. S. Neer | 619 S. Patterson Park ave | 818 | 500 | 412 | 88 | 21 | 19 | 160 | 239 | 261 | 199 | 1 | .. | 671 |
| 2d. | John H. Rehberger | 1709 Aliceanna st | 182 | 461 | 452 | 9 | 461 | .. | .. | 262 | 199 | 155 | 6 | .. | 161 |
| 3d. | Wm. J. Hughes | 1523 E. Baltimore st | 1,519 | 366 | 316 | 50 | 226 | 18 | 92 | 191 | 175 | 326 | 10 | .. | 243 |
| 4th | Jacob H. Mitnick | 309 N. Exeter st | 2,090 | 785 | 762 | 23 | 488 | .. | 297 | 427 | 358 | 673 | 112 | .. | 514 |
| 5th | Arthur Wegefarth | 733 Aisquith st | 1,166 | 511 | 500 | 11 | 522 | 13 | 5 | 210 | 301 | 331 | 210 | .. | 227 |
| 6th | Saml. T. Roeder | 1901 E. Fayette st | 2,542 | 764 | 595 | 169 | 341 | 14 | 409 | 419 | 345 | 696 | 68 | .. | 557 |
| 7th | Geo. H. Chabot | 1111 E. Preston st | 1,664 | 671 | 199 | 175 | 579 | 1 | 91 | 321 | 350 | 517 | 127 | .. | 697 |
| 8th | Henry F. Cassidy | 702 Greenmount ave | 1,765 | 287 | 287 | .. | 277 | 10 | .. | 148 | 139 | 258 | 29 | .. | 955 |
| 9th | C. W. Hartwig | 111 W. Saratoga st | 1,918 | 445 | 250 | 195 | 318 | 18 | 111 | 272 | 173 | 214 | 229 | .. | 136 |
| 10th | Robt. J. Murray | 320 N. Fremont ave | 1,171 | 733 | 679 | 54 | 338 | .. | 395 | 176 | 257 | 178 | 555 | .. | 573 |
| 11th | E. Lambert Yourex | 1138 Druid Hill ave | 2,901 | 516 | 310 | 206 | 259 | 65 | 192 | 257 | 259 | 67 | 449 | .. | 249 |
| 12th | Morris C. Robins | 1311 Druid Hill ave | 1,555 | 508 | 126 | 82 | 342 | 60 | 106 | 237 | 271 | 321 | 184 | .. | 96 |
| 13th | Wm. Wolf | 945 W. Fayette st | 539 | 272 | 191 | 81 | 251 | 14 | 7 | 131 | 141 | 216 | 26 | .. | 169 |
| 14th | John G. Jeffers | 1113 W. Franklin st | 1,537 | 380 | 356 | 24 | 257 | 12 | 81 | 201 | 176 | 319 | 61 | 20 | 68 |
| 15th | Henry H. Imhoff | 622 Hanover st | 1,383 | 425 | 317 | 110 | 423 | 2 | 661 | 577 | 713 | 1,195 | 211 | .. | 422 |
| 16th | C. L. Nucols | 643 S. Paca st | 1,377 | 601 | 523 | 81 | 487 | 33 | 81 | 301 | 303 | 301 | 293 | .. | 361 |
| 17th | H. H. Hayden | 1425 Light st | 1,883 | 906 | 811 | 95 | 563 | .. | 343 | 443 | 463 | 903 | 3 | .. | 1,500 |
| 18th | Harry Boyd | 677 Columbia ave | 1,491 | 719 | 474 | 245 | 197 | 13 | 509 | 105 | 311 | 610 | 79 | .. | 614 |
| 19th | H. H. Arthur | 1516 Lexington st | 1,319 | 586 | 451 | 135 | 328 | 70 | 188 | 246 | 340 | 214 | 372 | .. | 233 |
| 20th | Wm. Kroh | 1301 W. Lafayette ave | 1,835 | 1,165 | 577 | 588 | 500 | 61 | 604 | 536 | 629 | 341 | 624 | .. | 808 |
| 21st | J. B. Joyce | 2526 W. Baltimore st | 1,118 | 693 | 626 | 67 | 23 | 5 | 574 | 351 | 339 | 629 | 66 | .. | 157 |
| 22d. | H. G. Prentiss | 809 Gorsuch ave | 1,369 | 495 | 374 | 121 | 68 | 28 | 399 | 225 | 270 | 338 | 157 | .. | 836 |
| | | | 33,733 | 12,905 | 10,188 | 2,640 | 7,269 | 516 | 5,614 | 7,114 | 6,776 | 9,694 | 4,002 | 20 | 10,447 |

# Transcripts from the Births and Deaths.

TABLE E.

Transcripts From the Births and Deaths for the Year Ending December 31, 1897.

*From the Record of Deaths.*

| | |
|---|---|
| For pension claims | 772 |
| For life insurance claims | 837 |
| To prove death | 263 |
| To be sent to foreign countries | 47 |
| Total | 1,919 |

*From Record of Births.*

| | |
|---|---|
| For pension claims | 192 |
| To be sent to foreign countries | 44 |
| Total | 236 |

# REPORT OF THE CHEMIST.

# REPORT UPON THE CHEMICAL LABORATORY OF THE HEALTH DEPARTMENT FOR THE FISCAL YEAR ENDING DECEMBER 31, 1897.

*Dr. James F. McShane, Commissioner of Health:*

DEAR SIR: In my annual report for the year 1896, I dwelt upon the establishment of the chemical laboratory and the wide field which it opened to assist the Health Department in the important work of protecting the public health. Allow me to thank you for your untiring efforts and for the valuable assistance which you have secured for me by gradually adding to the chemical laboratory such facilities and additional apparatus as to enable me to accomplish considerable more work and extend the field of my chemical investigations in connection with my official duties; the more so, because these efforts in behalf of the public health have not passed unnoticed by the citizens of Baltimore and the interest, which many of them, who visited the chemical laboratory during the year, have shown, justifies us in the belief that our efforts have been fully appreciated.

Following, I respectfully submit a condensed report of the work performed at the chemical laboratory during the year 1897:

## I.—MILK.

### 1.—*Work Accomplished.*

During 1897 the two milk inspectors, under the supervision of your chemist, examined 26,522 lots of milk (see Table No. 1), aggregating 453,489 gallons, and 621 lots of adulterated milk, with a total of 3,158 gallons were spilled. With the above figures the limit of what the two milk inspectors may accomplish is about reached. During the ten months from March 1 to December 31, 1896, the examinations amounted to 18,684 lots, with a total of

161,766 gallons. The field of operation of the inspectors was principally confined to the area of the twenty wards of the city proper. The Twenty-first and Twenty-second wards—the Annex—received but little attention, as this could have only been done by neglecting the more densely populated districts of the city.

### 2.—*Quality of Milk.*

It is gratifying to state that the figures show a marked improvement compared with 1896, in reference to the quality of milk offered for sale. During the ten months (March to December), 1896, out of a total 161,766 gallons examined, 3,692 gallons were condemned and spilled; whilst during the twelve months of 1897, out of a total of 453,489 gallons, only 3,158 gallons were adulterated.

There are quite a large number of shippers of milk, especially as regards the larger dairy farms, who themselves control or conduct the sale of their milk in the city, and who not only offer their customers the pure, unadulterated article, but who pay particular attention to the sanitary condition of their stock, and who appreciate the importance of utmost cleanliness in the handling of the milk and its protection against all manner of pollution until it reaches the consumer. Again, there are dairies in the city, which, whilst they buy all the milk they handle at the several depots, do their dairying according to scientific principles, and do not offer milk for sale until each and every lot has been subjected to chemical and bacteriological analysis by their expert, or sterilized, as the case may be, to fulfill the requirements of their customers.

During 1897 I reported 412 complete milk analyses made from samples of milk condemned and spilled, and from suspected samples taken by the inspectors. Nearly every sample of milk representing a spill was analyzed, except samples of bloody or filthy milk, and milk which, after a microscopic examination, was found to contain an abnormal amount of pus.

The legal standard of milk as fixed by city ordinance, 12 per cent. total solids and 3 per cent butter-fat as a minimum, has not been changed, yet even in this respect there is an improvement to record as compared with 1896. Every week, several samples of milk, considered as good, pure and unadulterated milk have been

analyzed (see Table No. 2), the average for the year showing 13.83 per cent. of total solids and 4.21 per cent. of butter-fat.

### 3.—*Impure and Adulterated Milk.*

The principal adulteration of milk was, as in the previous year, the addition of water (watering), the removal of cream (skimming), or both watering and skimming. In my last report (1896) I said that the addition of water is the most serious fraud, and stated the reasons.

At the beginning of last summer season, the analysis of several suspected lots of milk, otherwise normal, showed the presence of formaline (formaldehyde), and upon investigation it was soon established that a solution of formaldehyde was extensively offered to milk dealers under the name of "Freezine" as a harmless preservative for milk. You were very prompt in at once putting a stop to this practice.

As usual, about a dozen or more lots of bloody milk were discovered and destroyed at the several depots, and about fifty gallons were found to be in a filthy condition, and spilled accordingly.

Quite a large number of samples of milk were tested for the various preservatives, such as boric acid, bicarbonate of soda, salicylic acid, fluoric acid, benzoic acid, etc., generally with negative results. On the whole, with the exception of the much practiced watering and skimming of milk, but little mischief has been attempted during the year.

### 4.—*Microscopic Examination of Milk.*

But a small quantity of milk has been condemned and spilled for being misroscopically impure. In a few instances pus was found to be present in such quantities as to necessitate prompt action. Very little milk, if any, as it reaches the city consumer is entirely free from pus, and I may here refer to the valuable investigation which, by your suggestion and under your direction, was carried on by Drs. Stokes, Wakefarth and Cornelius during the spring of 1897, and published in the "N. Y. Medical News." Stimulated by their investigations, I have myself, on a different line, however, early in the year, taken up this matter systematic-

ally, and from samples of milk delivered by the inspectors, have daily made one or two microscopic examinations to establish the presence of pus in milk. This was done by centrifugalizing for three minutes, by means of the electric centrifuge, ten cubic centimeters of milk, and examining the sediment microscopically. The results, whilst rather astonishing, corrobated fully the facts reached by the before named gentlemen. In but two instances did I find the milk absolutely free from pus. In all other cases, pus—very often only a few pus-cells were found to be present. The causes of the presence of pus in almost every sample were fully ventilated by Drs. Stokes and Wakefarth in their paper above referred to. Since we have unquestionable evidence that the bacillus tuberculosis may be present in the milk of cows suffering from tuberculosis, thus transplanting this dreadful germ into our system, should we drink such milk. I have made perhaps 200 or more microscopic tests during the past year to locate the bacillus tuberculosis in as many samples of milk subjected to analysis, but not in one instance was the germ found to be present.

### 5.—*Arrests.*

But few arrests under the ordinance regulating the sale of milk in the City of Baltimore, were made during 1897. All the cases for 1895 and 1896 are still untried.

## II.—Water.

### 1.—*Quality of the Water Supply.*

As during 1896 the city water supply has been systematically dealt with by making daily analyses of samples taken from the laboratory tap or from hydrants and house-taps throughout the city (see table No. 3 condensed). There is no cause for complaint; the hydrant-water was uniformally good, free from appreciable pollution and above the normal average. The figures indicate a slight improvement compared with the figures for 1896, due, no doubt, to the vigilance exercised by the Health Department, as well as by the State Board of Health, to protect the many water sheds which empty into the reservoirs from pollution.

### 2.—*Pumps and Wells.*

A totally different and most serious question confronted us during the year regarding the pumps and wells used for potable purposes in greater Baltimore, especially in the Annex. The water from 45 pumps or wells, samples of which were handed to me by the inspectors, were subjected to chemical analysis, and 34 out of the 45 were found to be dangerously polluted by sewerage or privy pollution, (see table No. 4), only 11 furnished good, potable water. In the water from some of these polluted pumps the chemical analysis established the presence of intestinal bacteria and the prevalence of typhoid fever was frequently traced to neighborhoods where such pumps furnished the drinking water used by the people stricken with this disease.

### 3.—*Springs, Streams and Ponds.*

During the year, 46 analyses were made of water from springs, streams and ponds for the purpose, as far as the springs and streams were concerned, to prevent any pollution to be carried into the several reservoirs and in reference to the ponds, to ascertain whether the water in these ponds was of sufficient purity to be utilized for ice-cutting during the winter.

## III.—Miscellaneous Analyses.

The field of miscellaneous work was a very much larger one during 1897 than during the previous year, comprising analyses of food products, such as bread, cakes, rusks, buns, rolls and other bakery products, butter and oleomargarine, coloring compounds and dyes, sausages, chopped beef, etc.

Within the last two months the Inspector of Bakeries and Confectioneries brought to the laboratory a number of samples of candies and taffies bought by him in the open market. The analyses revealed a state of affairs rather surprising. I have not advanced far enough with these investigations to be able to fully report to you on the subject, but to give you an idea of what people buy as "cheap candy." I will give you one illustration: One pound of so called French mixture was purchased at a "candy

kitchen" for seven cents (retail price). The analysis showed it to be composed of starch, glucose, glue and a small amount of artificial flavoring extract. The wholesale price of this "French candy," I learned was 4¼ cents a pound. Gum-drops are sold here, which do not contain a trace of gum; marsh-mallows without any albumen; cocoanut candy which does not contain the least bit of cocoanut. Proper legislation regulating the sale of candies is very much needed.

Your chemist analysed fifteen samples of "mud" from the bottom of Lake Roland and twelve samples of earth from the vicinity of Lake Roland in the interest of the Water Board. A number of investigations were made in the interest of the City Commissioner's office in reference to the quality of paints used to cover the iron work of our public bridges.

I remain, yours very respectfully,

G. W. LEHMANN, PH. D.,

*Chemist to the Board of Health.*

# TABLES.

TABLE No. 1.

Total Amount of Milk Examined and Spilled.

| 1897. | Examined. | | Spilled. | |
|---|---|---|---|---|
| | Lots. | Gallons. | Lots. | Gallons. |
| January | 1,734 | 25,383 | 86 | 433 |
| February | 1,986 | 31,303 | 52 | 304 |
| March | 2,263 | 38,629 | 74 | 384 |
| April | 2,270 | 38,456 | 73 | 367 |
| May | 2,260 | 39,946 | 35 | 185 |
| June | 2,309 | 40,737 | 57 | 282 |
| July | 2,155 | 35,860 | 47 | 218 |
| August | 2,420 | 39,961 | 34 | 171 |
| September | 2,204 | 37,774 | 29 | 128 |
| October | 2,342 | 39,968 | 53 | 267 |
| November | 2,328 | 41,123 | 38 | 203 |
| December | 2,251 | 44,349 | 43 | 216 |
| | 26,522 | 453,489 | 621 | 3,158 |

G. W. LEHMANN, Ph. D.,
*Chemist Board of Health.*

TABLE No. 2.

Analyses of 48 Samples of Milk Delivered at Railroad Stations and Considered Good Unadulterated Milk.

| 1897. | Total Solids. | Fat. | 1897. | Total Solids. | Fat. |
|---|---|---|---|---|---|
| January | 14.16 | 4.15 | July | 12.85 | 3.20 |
| " | 13.84 | 3.96 | " | 13.78 | 4.28 |
| " | 14.04 | 3.81 | " | 13.71 | 4.05 |
| " | 13.29 | 3.57 | " | 14.03 | 3.75 |
| February | 13.47 | 3.65 | August | 14.12 | 4.84 |
| " | 14.47 | 5.01 | " | 13.40 | 4.85 |
| " | 13.22 | 4.02 | " | 13.24 | 3.95 |
| " | 15.28 | 4.51 | " | 13.61 | 3.80 |
| March | 13.64 | 3.92 | September | 14.40 | 5.15 |
| " | 14.20 | 4.21 | " | 13.92 | 4.04 |
| " | 14.65 | 5.02 | " | 14.19 | 4.64 |
| " | 15.02 | 4.24 | " | 14.56 | 4.72 |
| April | 13.47 | 3.56 | October | 13.46 | 4.68 |
| " | 14.07 | 4.06 | " | 12.52 | 4.02 |
| " | 13.26 | 3.91 | " | 13.69 | 4.84 |
| " | 14.47 | 4.19 | " | 13.46 | 4.68 |
| May | 13.35 | 3.40 | November | 13.10 | 4.22 |
| " | 13.84 | 4.04 | " | 13.85 | 4.15 |
| " | 13.71 | 3.74 | " | 14.10 | 4.65 |
| " | 12.71 | 3.44 | " | 13.41 | 4.10 |
| June | 13.65 | 5.10 | December | 13.80 | 4.78 |
| " | 15.30 | 4.12 | " | 14.14 | 4.76 |
| " | 12.61 | 3.95 | " | 14.22 | 4.20 |
| " | 12.46 | 3.85 | " | 16.11 | 4.42 |
| Average | | | | 13.83 | 4.21 |

G. W. LEHMANN, PH. D.,

*Chemist Board of Health.*

TABLE No. 3.

Monthly Averages: Analyses City Water Supply, Figures Expressed in Parts per Million.

| 1897. | Volatile Solids. | Mineral Solids. | Total Solids. | Chlorine. | Free Ammonia | Albumenoid Ammonia. | Nitrates. | Nitrites. |
|---|---|---|---|---|---|---|---|---|
| January | 37 | 35 | 72 | 6.22 | 0.06 | 0.05 | 0.11 | 0.00 |
| February | 40 | 40 | 80 | 6.17 | 0.05 | 0.03 | 0.14 | 0.00 |
| March | 38 | 52 | 90 | 7.10 | 0.05 | 0.07 | 0.10 | 0.00 |
| April | 40 | 42 | 82 | 6.84 | 0.04 | 0.07 | 0.08 | 0.00 |
| May | 32 | 44 | 76 | 6.12 | 0.06 | 0.06 | 0.16 | 0.00 |
| June | 34 | 51 | 85 | 5.50 | 0.09 | 0.08 | 0.20 | 0.00 |
| July | 41 | 45 | 86 | 5.28 | 0.08 | 0.07 | 0.21 | 0.00 |
| August | 36 | 38 | 74 | 4.81 | 0.06 | 0.04 | 0.09 | 0.00 |
| September | 35 | 48 | 83 | 5.20 | 0.03 | 0.04 | 0.09 | 0.00 |
| October | 41 | 51 | 92 | 5.16 | 0.02 | 0.03 | 0.12 | 0.00 |
| November | 37 | 46 | 83 | 6.14 | 0.02 | 0.05 | 0.10 | 0.00 |
| December | 33 | 40 | 73 | 5.35 | 0.04 | 0.06 | 0.14 | 0.00 |
| Average for year.. | 37 | 44.3 | 81.3 | 5.82 | 0.05 | 0.054 | 0.13 | 0.00 |

G. W. LEHMANN, PH. D., *Chemist Board of Health.*

TABLE No. 4.

Analyses of Water from Polluted Pumps or Wells Analyzed During 1897, Figures Expressed in Parts per Million.

| | Volatile Solids. | Mineral Solids. | Total Solids. | Chlorine. | Free Ammonia | Albumenoid Ammonia. | Nitrates | Nitrites. |
|---|---|---|---|---|---|---|---|---|
| Carroll street | 38 | 19 | 57 | 7.45 | 0.02 | 0.18 | 0.20 | 0.08 |
| Parkdale & Woodberry avenue | 67 | 128 | 195 | 13.49 | 0.09 | 0.15 | 12.50 | trace |
| 1025 York road | 283 | 655 | 938 | 93.60 | 0.14 | 0.24 | 132.77 | trace |
| Charles-street avenue Tollgate | 133 | 80 | 213 | 42.24 | 0.21 | 0.08 | 38.56 | 0.00 |
| 1030 Huntingdon avenue | 434 | 582 | 1,016 | 159.75 | 0.46 | 0.58 | 137.92 | 0.08 |
| Mt. Olivet lane | 308 | 183 | 491 | 96.21 | 0.05 | 0.07 | 39.60 | 0.00 |
| 515 Roland avenue | 320 | 316 | 636 | 163.30 | 4.15 | 2.60 | 15.00 | 0.09 |
| Park Heights | 122 | 104 | 226 | 59.88 | 0.10 | 0.25 | 4.24 | trace |
| 513 Madison street, Waverly | 165 | 72 | 237 | 74.55 | 0.02 | 0.03 | 16.50 | 0.00 |
| Oakford ave. & Garrison lane | 81 | 51 | 132 | 42.60 | 0.00 | 0.04 | 9.20 | 0.00 |
| 734 Gorsuch avenue, Waverly | 464 | 567 | 1,031 | 268.85 | 0.42 | 0.70 | 252.00 | 0.04 |
| 420 Falls road | 183 | 82 | 265 | 44.02 | 0.04 | 0.09 | 10.50 | 0.00 |
| 182 Old York road | 434 | 181 | 615 | 115.02 | 0.12 | 0.15 | 28.00 | 0.02 |
| Fifth avenue, Hampden | 245 | 111 | 356 | 43.66 | 0.03 | 0.15 | 98.50 | 0.00 |
| 109 Millington lane | 510 | 395 | 905 | 167.56 | 0.05 | 0.12 | 95.00 | trace |
| Calloway & Fairview avenue | 53 | 48 | 101 | 6.74 | 0.75 | 1.15 | 0.05 | 0.00 |
| 3 Kennedy lane | 212 | 108 | 320 | 44.37 | 0.00 | 0.06 | 19.70 | 0.00 |
| 545 Quarry avenue | 738 | 296 | 1,034 | 156.91 | 0.00 | 0.10 | 45.50 | 0.00 |
| 2826 Lanvale street | 276 | 172 | 448 | 51.12 | 0.00 | 0.05 | 18.60 | 0.00 |
| 207 Carroll street | 342 | 114 | 456 | 58.22 | 0.00 | 0.12 | 19.50 | 0.00 |
| 59 Mount street | 286 | 92 | 378 | 60.35 | 0.00 | 0.08 | 26.40 | 0.00 |
| Chesterwood | 668 | 766 | 1,434 | 688.70 | 0.00 | 0.00 | 0.05 | 0.00 |
| 311 Falls road | 256 | 106 | 362 | 38.34 | 0.04 | 0.10 | 14.25 | 0.00 |
| Franklin ter. & Old York road | 148 | 54 | 202 | 48.28 | 0.02 | 0.09 | 0.90 | 0.00 |
| Linden Heights | 61 | 78 | 139 | 40.82 | 0.00 | 0.00 | 15.20 | 0.00 |
| Liberty street, Waverly | 82 | 126 | 208 | 12.78 | 0.12 | 0.28 | 0.85 | 0.00 |
| 166 Old York road | 260 | 195 | 455 | 97.27 | 0.20 | 0.42 | 45.50 | 0.00 |
| Penwood Iron Pump | 574 | 212 | 786 | 278.67 | 0.18 | 0.35 | 0.55 | 0.00 |
| 1005 Second street, Calverton | 256 | 126 | 382 | 118.57 | 0.21 | 0.18 | 42.50 | 0.45 |
| 149 Chestnut avenue | 312 | 122 | 434 | 98.69 | 0.04 | 0.10 | 116.42 | trace |
| Mount street near Baker | 678 | 548 | 1,226 | 171.11 | 1.25 | 0.10 | 214.50 | 0.18 |
| 112 Frisby street | 154 | 104 | 258 | 34.08 | 0.04 | 1.11 | 51.20 | 0.00 |

G. W. LEHMANN, PH. D., *Chemist Board of Health.*

# REPORT

—— OF THE ——

# INSPECTOR OF PLUMBING.

# Report of Plumbing Inspector.

BALTIMORE, December 31, 1897.

*James F. McShane. M. D.,*
*President of the Board of Health*
*and Commissioner of Health:*

SIR: I have the honor to submit the following report of work performed by me, as Inspector of Plumbing, for the year ending December 31, 1897. The tables annexed will show in detail the number of permits issued and inspections made.

| | |
|---|---|
| Number of permits issued for plumbing | 2,873 |
| " " " " " drains | 217 |
| " " inspections of plumbing | 2,910 |
| " " " " drains | 404 |
| " " registered plumbers in Baltimore to date | 394 |

In conformity with the requirements of Section 7 of the ordinance regulating the work of plumbing, I most respectfully inform you that fines to the amount of $55.50 were imposed for violations.

Respectfully,

JOS. C. MITCHELL,

*Inspector of Plumbing.*

## PLANS RECEIVED AND PERMITS GRANTED FOR PLUMBING AND DRAIN WORK FOR YEAR ENDING DECEMBER 31, 1897.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Jan.. | Permits for plumbing. | | 94 | Drains | | 11 | Total | | 105 |
| Feb.. | " | " | 132 | " | | 8 | " | | 140 |
| Mar. | " | " | 221 | " | | 40 | " | | 261 |
| April | " | " | 376 | " | | 26 | " | | 261 |
| May. | " | " | 269 | " | | 23 | " | | 292 |
| June | " | " | 332 | " | | 28 | " | | 460 |
| July. | " | " | 328 | " | | 25 | " | | 353 |
| Aug.. | " | " | 291 | " | | 15 | " | | 306 |
| Sept. | " | " | 301 | " | | 5 | " | | 306 |
| Oct.. | " | " | 209 | " | | 11 | " | | 320 |
| Nov. | " | " | 169 | " | | 14 | " | | 183 |
| Dec. | " | " | 151 | " | | 11 | " | | 162 |
| | | | 2,873 | | | 217 | | | 3,149 |

## INSPECTIONS OF PLUMBING AND DRAINS FOR YEAR ENDING DECEMBER 31, 1897.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Jan.. | Inspections of plumb'g | | 97 | Inspections of drains | | 28 | Total | | 125 |
| Feb.. | " | " | 120 | " | " | 49 | " | | 169 |
| Mar. | " | " | 294 | " | " | 26 | " | | 320 |
| April | " | " | 238 | " | " | 40 | " | | 278 |
| May | " | " | 294 | " | " | 49 | " | | 343 |
| June | " | " | 342 | " | " | 48 | " | | 390 |
| July. | " | " | 291 | " | " | 40 | " | | 331 |
| Aug. | " | " | 321 | " | " | 45 | " | | 366 |
| Sept. | " | " | 312 | " | " | 37 | " | | 349 |
| Oct.. | " | " | 241 | " | " | 22 | " | | 263 |
| Nov. | " | " | 190 | " | " | 17 | " | | 207 |
| Dec. | " | " | 170 | " | " | 31 | " | | 201 |
| | | | 2,910 | | | 404 | | | 3,342 |

Respectfully submitted.

JOS. C. MITCHELL, *Inspector of Plumbing.*

# REPORT

— OF THE —

# Quarantine Hospital of the Port of Baltimore.

# REPORT.

QUARANTINE HOSPITAL,
PORT OF BALTIMORE, January 1, 1898.

*To the Honorable the Mayor and City Council of Baltimore:*

GENTLEMEN: I have the honor to herewith submit the report of the Quarantine Hospital for the year ending December 31, 1897:

The additional duties imposed upon this service by the government of boarding all foreign vessels the year round necessitated the services of another boat for the prompt inspection of vessels arriving at this port. In the last two annual reports of this hospital that necessity was referred to, and the suggestion made that the city either build or purchase a boat with sufficient power to withstand the heavy seas and ice of the lower river, but the Council failed to act upon the suggestion, which compelled His Honor the Mayor to charter a boat at the rate of $600 a month, which boat is still in the service of the city.

I would therefore earnestly recommend the purchase of an additional boat as soon as possible, and thereby save a considerable expense.

The past year has been one of unprecedented activity among the shipping interest of this port. One thousand and fifty vessels have been boarded and inspected during the year (see Table I), and from these vessels we have collected and paid into the city treasury the sum of $15,105.79 (see Table II).

Table III shows the number and class of vessels with sickness aboard or from infected ports detained at Quarantine for cleansing and disinfection. There were eight in all.

By referring to Table IV you will find that eight patients were treated at this hospital during the year. Three of whom were

sent from the city—the other five were taken off of vessels, and all of whom were discharged, cured.

The cost of maintaining the Quarantine for the year was $23,250.28; $7,200 of which was paid for the hire of the extra boat, without which the station would have been nearly self-supporting.

In conclusion, I beg leave to return my sincere thanks to Dr. Allen W. Smith for his intelligent assistance, and to say that the employes of the place have performed their duties in a manner deserving the highest praise.

Very respectfully, your obedient servant,

SIDNEY O. HEISKELL, M.D.,

*Quarantine Physician.*

# TABLES.

TABLE I.

Showing the Number and Class of Vessels Boarded and Inspected at the Quarantine for the Year Ending December 31, 1897.

| Months. | Class of Vessels. | | | | | |
|---|---|---|---|---|---|---|
| | Steamships. | Ships. | Barks. | Brigs. | Schooners. | Total. |
| January | 49 | ..... | 4 | ..... | 1 | 54 |
| February | 59 | 4 | 5 | ..... | 4 | 72 |
| March | 66 | 1 | 5 | 2 | ..... | 74 |
| April | 49 | 1 | 7 | ..... | 1 | 58 |
| May | 57 | 1 | 5 | ..... | 33 | 96 |
| June | 51 | ..... | 5 | 1 | 63 | 120 |
| July | 67 | ..... | 4 | ..... | 35 | 106 |
| August | 108 | ..... | 5 | ..... | 19 | 132 |
| September | 86 | ..... | 4 | ..... | 11 | 101 |
| October | 67 | ..... | 2 | ..... | 11 | 80 |
| November | 66 | 1 | 5 | ..... | 3 | 75 |
| December | 77 | 1 | 3 | ..... | 3 | 84 |
| Total.. | 802 | 9 | 54 | 3 | 184 | 1,052 |

TABLE II.

Showing the Amount of Money Received for Quarantine Fees and Paid to the City Register for the Year Ending December 31, 1897.

| Months. | Class of Vessels. | | | | | |
|---|---|---|---|---|---|---|
| | Steamships. | Ships. | Barks. | Brigs. | Schooners. | Total. |
| January | 927.07 | ..... | 28.83 | ..... | 4.67 | 960.57 |
| February | 1,056.70 | 63.44 | 34.35 | ..... | 15.32 | 1,169.81 |
| March | 1,117.49 | 14.18 | 37.06 | 8.20 | ..... | 1,176.93 |
| April | 856.21 | 19.90 | 49.95 | ..... | 6.48 | 932.54 |
| May | 968.87 | 31.54 | 31.35 | ..... | 112.26 | 1,144.02 |
| June | 792.93 | ..... | 30.21 | 2.00 | 204.70 | 1,029.84 |
| July | 121.39 | ..... | 26.90 | ..... | 121.42 | 1,269.71 |
| August | 1,815.18 | ..... | 43.26 | ..... | 110.73 | 1,969.17 |
| September | 1,442.78 | ..... | 21.26 | ..... | 43.22 | 1,507.26 |
| October | 1,159.39 | ..... | 11.09 | ..... | 62.12 | 1,232.60 |
| November | 1,235.60 | 11.99 | 34.20 | ..... | 9.64 | 1,291.43 |
| December | 1,394.61 | 19.36 | ..... | ..... | 7.94 | 1,421.91 |
| Total | 13,888.22 | 160.41 | 348.46 | 10.20 | 698.50 | 15,105.79 |

## TABLE III.

Showing the Number and Class of Vessels Detained at Quarantine for Cleansing and Disinfecting for the Year Ending December 31, 1897.

| Months. | Class of Vessels. | | | | | |
|---|---|---|---|---|---|---|
| | Steamships. | Ships. | Barks. | Brigs. | Schooners. | Total. |
| January | | | | | | |
| February | 1 | | | | | 1 |
| March | | | | | | |
| April | | | | | | |
| May | | | | | | |
| June | 1 | | | | | 1 |
| July | 1 | | | | | 1 |
| August | 1 | | | | | 1 |
| September | | | | | | |
| October | 1 | | | | | 1 |
| November | 1 | | | | | 1 |
| December | | | | | | |
| Total | 6 | | | | | 6 |

## TABLE IV.

Showing the Number of Patients at the Quarantine Hospital for the Year Ending December 31, 1897.

| Disease. | Remaining in Hospital from 1896. | Discharged in 1897. | Received in 1897. | Died. | Remaining in Hospital. | Total. |
|---|---|---|---|---|---|---|
| Yellow fever | | 2 | 2 | | | 2 |
| Chagres fever | | 3 | 3 | | | 3 |
| Diphtheria | | 1 | 1 | | | 1 |
| Malaria | | 1 | 1 | | | 1 |
| Measles | | 1 | 1 | | | 1 |
| Chicken-pox | | 1 | 1 | | | 1 |
| Total | | 8 | 8 | | | 8 |

# REPORT.

—— UPON THE ——

# BACTERIOLOGICAL LABORATORY.

# REPORT UPON THE BACTERIOLOGICAL LABORATORY FOR THE YEAR ENDING DECEMBER 31, 1897.

---

*Dr. James F. McShane, Commissioner of Health:*

DEAR SIR: I hereby respectfully submit my report upon the Bacteriological Laboratory of the Health Department of Baltimore for the year ending December 31, 1897.

## BACTERIOLOGICAL EXAMINATION OF THE WATER SUPPLY.

The general plan which has been pursued has consisted in the routine examination of the water from the laboratory tap in order to estimate the number of bacteria present in one cubic centimeter of water. The plates were made in gelatine prepared according to Fuller's directions, and the colonies were counted with a small hand lens and the Lafar counter.

TABLE No. 1.

Bacteria Per C. C. in the Baltimore City Water for 1897.

| | | |
|---|---|---|
| January | 1 | 151 |
| " | 2 | 194 |
| " | 4 | 210 |
| " | 5 | 221 |
| " | 6 | 250 |
| " | 7 | 246 |
| " | 8 | 195 |
| " | 9 | 231 |
| " | 10 | 261 |
| " | 11 | 305 |
| " | 12 | 641 |
| " | 13 | 331 |
| " | 14 | 201 |
| " | 15 | 209 |
| Monthly average | | 260.4 |
| February | 15 | 311 |
| " | 16 | 315 |
| " | 17 | 210 |
| " | 18 | 209 |
| " | 19 | 217 |
| " | 20 | 241 |
| " | 22 | 305 |
| " | 23 | 109 |
| " | 24 | 209 |
| " | 25 | 301 |
| " | 26 | 193 |
| " | 27 | 244 |
| Monthly average | | 243.7 |
| March | 1 | 50 |
| " | 2 | 73 |
| " | 3 | 92 |
| " | 4 | 75 |
| " | 5 | |
| " | 6 | 2715 |
| | (Following a rain.) | |
| " | 7 | 1216 |
| | (Following same rain.) | |
| " | 10 | 102 |
| " | 15 | 53 |
| " | 16 | 45 |
| " | 17 | 42 |
| " | 18 | 96 |
| " | 19 | 150 |
| " | 20 | 115 |
| " | 29 | 160 |
| March | 30 | 174 |
| " | 31 | 209 |
| Monthly average | | 291.7 |
| May | 1 | 402 |
| " | 2 | 405 |
| " | 3 | 630 |
| " | 4 | 775 |
| | (After rain.) | |
| " | 5 | 409 |
| " | 6 | 306 |
| " | 7 | 352 |
| " | 8 | 291 |
| " | 10 | 240 |
| " | 11 | 250 |
| " | 12 | 309 |
| " | 13 | 402 |
| " | 14 | 350 |
| " | 15 | 349 |
| " | 17 | 360 |
| " | 18 | 271 |
| " | 19 | 403 |
| " | 20 | 407 |
| " | 21 | 371 |
| " | 22 | 289 |
| " | 24 | 407 |
| " | 25 | 307 |
| " | 26 | 402 |
| " | 27 | 298 |
| " | 28 | 431 |
| " | 29 | 306 |
| " | 31 | 304 |
| Monthly average | | 363.6 |
| June | 1 | 420 |
| " | 4 | 310 |
| " | 8 | 216 |
| " | 9 | 630 |
| " | 10 | 350 |
| | (Rain.) | |
| " | 16 | 3162 |
| | (After rain.) | |
| " | 17 | 1380 |
| " | 24 | 45 |
| " | 28 | 125 |
| Monthly average | | 736.4 |

TABLE No. 1.—(CONTINUED.)

| | |
|---|---|
| July 6 | 32 |
| " 8 | 257 |
| " 9 | 362 |
| " 11 | 205 |
| " 14 | 196 |
| " 16 | 182 |
| " 19 | 450 |
| (After two days' rain.) | |
| " 20 | 182 |
| " 22 | 230 |
| " 24 | 210 |
| " 27 | 350 |
| (After hard rain.) | |
| " 28 | 312 |
| (After hard rain.) | |
| Monthly average | 219.6 |
| August 4 | 75 |
| " 6 | 174 |
| " 9 | 600 |
| " 11 | 760 |
| " 13 | 65 |
| " 15 | 145 |
| " 18 | 209 |
| " 21 | 229 |
| " 23 | 198 |
| " 25 | 241 |
| Monthly average | 269.6 |
| October 1 | 241 |
| " 4 | 196 |
| " 6 | 208 |
| " 9 | 151 |
| " 12 | 230 |
| (After rain.) | |
| " 14 | 216 |
| October 16 | 173 |
| " 18 | 308 |
| " 20 | 240 |
| " 26 | 186 |
| " 28 | 218 |
| " 30 | 141 |
| Monthly average | 208.9 |
| November 2 | 207 |
| " 3 | 65 |
| " 5 | 101 |
| " 6 | 282 |
| " 11 | 810 |
| " 15 | 287 |
| " 17 | 306 |
| " 19 | 204 |
| " 21 | 235 |
| " 26 | 261 |
| " 28 | 304 |
| " 30 | 243 |
| Monthly average | 275.4 |
| December 2 | 213 |
| " 4 | 304 |
| " 6 | 196 |
| " 8 | 231 |
| " 10 | 196 |
| " 12 | 304 |
| " 14 | 275 |
| " 16 | 232 |
| " 20 | 313 |
| " 23 | 246 |
| " 26 | 198 |
| " 30 | 204 |
| Monthly average | 242.6 |

Average per year of colonies per cubic centimeter, 309.1

GENERAL WATER SUPPLY.

A number of examinations have also been made for the purpose of obtaining an accurate knowledge of the general water supply. For this purpose specimens have been collected from different taps throughout various sections of the city, as well as from a number of outlying streams forming portions of the water supply.

These samples were always first subjected to a microscopic examination of the sediment in order to determine the varieties of animal and vegetable microscopic organisms present. The number of bacteria present to the cubic centimeter was next determined, and the various tests for the presence of intestinal bacteria (bacillus coli communis) were then performed. It has not always been found to be an easy matter to exactly determine the presence of the bacillus coli communis in water. Theobald Smith has shown that this organism will cause a typical series of phenomena, when present in fermentation tubes containing 2 per cent. glucose, lactose and saccharose bouillon. These might be represented by the following formula.

FORMULA.

In glucose and lactose bouillon about fifty per cent. of gas is formed in the closed branch of the fermentation tube in three or four days. This gas consists of one part of $CO_2$ to two parts of H. The medium is always acid.

In saccharose bouillon, either no gas is formed, or the gas only forms slowly, from twenty-five per cent. to fifty per cent. of gas forming in about a week. The proportion of $CO_2$ to H. varies and the reaction may be either acid or alkaline.

This would seem at first sight a most valuable means of detecting the presence of the bacillus coli communis in small quantities of water, and often this organism can be demonstrated as present, by simply inoculating fermentation tubes, containing the three sugars with from 0.1 to one cubic centimeter of water. Often the tubes will simply show the characteristic fermentation formula of the bacillus coli communis and the presence of this organism in small quantities of water can thus be made out.

In applying the fermentation tests to the Baltimore drinking water, it was soon found that other fermentation bacteria were

almost constantly present, and it was also proven that if an approximately equal number of these bacteria and of colon bacilli were simultaneously introduced into the fermentation tubes, that the result would be a fermentation formula, which would neither correspond to that of the bacillus coli communis, nor to that of the other fermentative bacterium. For example: An organism was isolated from some well water having the following formula:

FERMENTATION TUBES.

Two per cent. glucose bouillon. First day, 84 per cent.; second, 5 per cent. Total, 89 per cent. of gas.

$CO_2$–60 per cent., H–40 per cent. Reaction neutral.

Two per cent. lactose bouillon. First day, 5 per cent. Total, 5 per cent. of gas. Neutral.

Saccharose bouillon. First day, 70 per cent.; second, 30 per cent. Total, 100 per cent. of gas.

$CO_2$–60 per cent., H–40 per cent. Very acid.

One loupful of a fluid culture of 24 hours of this organism, together with one loupful of a known similar fluid culture of the bacillus coli communis were both introduced into the fermentation tubes, and the resulting fermentation formula differed from that of either of the organisms introduced, and was as follows:

Two per cent. glucose bouillon. First day, 75 per cent. Total, 75 per cent. of gas.

$CO_2$–66 per cent., H–33 per cent. Neutral.

Two per cent. lactose bouillon. First day, 40 per cent.; second, 2 per cent. Total, 42 per cent. of gas.

$CO_2$–33 per cent., H–66 per cent. Acid.

Two per cent. saccharose bouillon. First day, 60 per cent; second, 40 per cent. Total, 100 per cent. of gas.

$CO_2$–75 per cent., H–25 per cent. Neutral.

From this it will be seen that the presence of these two different species caused a condition characteristic of neither. A number of similar experiments with other varieties of fermentative bacteria also proved that they could mask the presence of the bacillus coli communis, and showed that even if water contained the colon bacillus, that more exact methods were sometimes necessary in

order to determine its presence. In searching for this organism in deep well water, or in specimens of surface water where the contamination is apt to be in a concentrated form, it is simply necessary to inoculate a glucose bouillon fermentation tube with about O.5 of a cubic centimeter of the water. If any fermentation takes place in 48 hours, a plate culture is then prepared in lactose agar containing litmus. (Wurtz method). Large moist colonies which turn slightly red can then be selected, and if these be the colon bacillus, they will carry out its characteristic fermentation formula with the three sugars and also cause its well known reactions in the other forms of culture media.

In searching for the presence of the bacillus coli communis in water secured from the taps in various districts of the city, in addition to adding from O.5–1.Occ. to fermentation tubes, 50 cubic centimeters of water were added to an equal quantity of concentrated or the usual nutrient bouillon, and after twenty-four hours at 35° C plate cultures were made from the cloudy fluid.

The following table will show the examinations of the district taps, the streams forming the sources of supply, and the wells in the Annex in detail:

TABLE No. 2.

Complete Bacteriological Examinations of Water.

| District, Stream or Well. | Date of Examination. | Colonies per c.c. | Colon Bacillus Present. |
|---|---|---|---|
| Northwestern District.. | Jan. 8 | 193 | None in 50 c.c. |
| Northwestern District.. | " 14 | 231 | " " |
| Western District..... | " 16 | 216 | " " |
| Western District..... | " 20 | 159 | " " |
| Central District ..... | Feb. 12 | 236 | " " |
| Central District ..... | " 22 | 305 | " " |
| Lindsay Stream..... | " 26 | 240,000 | Present in 0.5 c.c. Bad. |
| Dophler Stream..... | Mar. 1 | 6,456 | None in 0.5 c.c. Bad. |
| Shipley Stream..... | " 6 | 16,950 | " " " |
| Clinton Jessups Stream. | " 8 | 2,650 | None in 50 c.c. |
| Herman Horner Stream. | " 13 | 17,648 | Present in 0.5 c.c. Bad. |
| Pot Spring Stream..... | " 15 | 158,000 | " " " |
| Towson Run..... | " 24 | ..... | " " " |
| Warren Stream..... | " 30 | 7,421 | " " " |
| Central District..... | May 5 | 409 | None in 50 c.c. |
| Central District ..... | " 10 | 240 | Present in 50 c.c. |
| Well, Roland Park..... | " 17 | 5,641 | * Present in 0.5 c.c. Bad. |
| * The bacillus prodigiosus and pyacyaneus were also present in 0.5 C. C. | | | |
| Central District..... | May 17 | 218 | None in 50 c.c. |
| Plummer Well..... | " 27 | 8,640 | Present in 0.5 c.c. Bad. |
| Central District..... | June 9 | 630 | None in 50 c.c. |
| Well, Stansbury..... | " 24 | 370 | " " |
| Central District..... | " 29 | 45 | " " |
| Central District..... | July 9 | 362 | " " |
| Southeastern District... | " 14 | 196 | " " |
| Central District..... | " 19 | 450 | " " |
| Well, Chesterwood .... | " 24 | 740 | Present in 0.5 c.c. |
| Well, Foley..... | " 28 | 14,400 | None found in 0.5 c.c. Bad. |
| Central District..... | Aug. 4 | 237 | " " 50 c.c. |
| Southeastern District... | " 16 | 413 | " " " |
| Central District..... | " 21 | 420 | " " " |
| Penwood Park..... | " 28 | 95 | " " 0.5 c.c. |
| Well, North'n District.. | Sept. 2 | 20 | " " " |
| Well, Saw Mill ..... | " 2 | 97 | " " " |
| Well, Penwood..... | " 2 | 1,409 | " " " Bad. |
| Northern District..... | " 15 | 274 | " " 50 c.c. |
| Central District..... | Oct. 10 | 198 | " " " |
| Central District..... | " 26 | 186 | " " " |
| Central District..... | " 29 | 195 | " " " |
| Draayer Spring 1..... | Nov. 1 | ..... | Present in 0.5 c.c.. Bad. |
| Draayer Spring 2..... | " 4 | ..... | " " " |
| Harris Well..... | " 4 | ..... | " " " |
| League Well..... | " 4 | ..... | None in 50 c.c. |
| Central District..... | " 16 | 282 | " " |
| Pump Calverton..... | " 24 | ..... | Present in 5 c.c. Bad. |
| Central District..... | " 15 | 287 | None in 50 c.c. |
| Well A..... | Dec. 10 | 546 | Present in 1 c.c. Bad. |

GENERAL CONCLUSIONS.

From the above report it will be seen that the Baltimore drinking water as it reaches the consumer might be regarded as fairly pure from a bacteriological standpoint, since the bacillus coli communis was only detected once in 22 examinations and then only in 50 ccs. of water. The average number of colonies to the cubic centimeter (309.1), is also small when compared to many of the English or Continental rivers, especially those which receive the sewage from many towns and villages. Thus Frankland has shown that the Seine gave a yearly average of 32,530 bacteria, while the unfiltered Thames water contained from 8,000 to 63,000 per cubic centimeter. On the other hand the Ridgewood water supplying Brooklyn only contains from 200–400 bacteria per cc., and this supply is scrupulously kept from sewage contamination by the efforts of the Health Department.

But though this is the case, the above table also shows that many of our citizens, especially in the Annex, are drinking water from badly polluted wells. There can be no doubt, also, that at times sewage finds its way into the streams which form a part of the water supply. This can be demonstrated by actual inspection, and as the table demonstrates, samples taken below these places show well-marked bacterial pollution. The present condition of the Baltimore water is probably due to the sedimentation which takes place in the dams and reservoirs, and the great dilution of the scattered nuisances. This condition cannot always last, and as time goes on, and the banks of the rivers become more thickly settled, the pollution will steadily increase and water-born diseases such as typhoid fever may become more frequent. This gradually increasing danger can be averted by means of the system of filtration. Such methods of purification are able to rid the water of 98 per cent. of the bacteria, and when properly applied they greatly reduce the mortality from typhoid fever.

EXAMINATIONS FOR THE BACILLUS OF DIPHTHERIA.

| | |
|---|---|
| Positive | 627 |
| Negative | 661 |
| Unsatisfactory | 22 |
| Total | 1,310 |

EXAMINATIONS FOR THE BACILLUS OF TUBERCULOSIS.

| | |
|---|---|
| Positive | 290 |
| Negative | 364 |
| Unsatisfactory | 4 |
| Total | 658 |

The Widal test for typhoid fever has also been made in a number of instances for physicians. The dried-blood method was used, and a dilution of 1–10 of distilled water was employed in making the test in the hollow glass slide. Some difficulty was experienced in preserving the motility of the organism in bouillon cultures, but this was obviated by transferring the culture each day upon a slanted glycerin-agar tube and adding about 1 cc. of bouillon to the tube culture. The transfer was always made from cultures from 2–4 weeks old as recommended by Johnson.

WIDAL TESTS FOR TYPHOID FEVER.

| | |
|---|---|
| Positive | 98 |
| Negative | 107 |
| Unsatisfactory | 9 |
| Total | 214 |

CULTURES FROM THROATS OF SCHOOL CHILDREN FOR THE DIPHTHERIA BACILLUS.

| | |
|---|---|
| Excluded from school | 51 |
| Not excluded from school | 178 |
| Total | 229 |

MISCELLANEOUS EXAMINATIONS.

| | |
|---|---|
| Malarial organism, positive | 2 |
| " " negative | 8 |
| Special diphtheria of eye and inoculation experiments | 1 |
| Gonococci in pus of eye | 1 |
| " " " vagina | 1 |
| " " " urethra | 6 |

EXAMINATION OF THROATS OF GRAMMAR SCHOOL NO. 16.

| | |
|---|---|
| Diphtheria bacilli present | 2 |
| " " not present | 42 |
| Milk for tubercle bacilli, negative | 4 |
| Mechanical Filters | 8 |

## REPORT UPON FORMALDELHYDE DISINFECTION.

Owing to the recent general interest, which has arisen in regard to formaldehyde disinfection, it was determined to undertake some experiments in regard to the power of destroying bacteria, possessed by this gas. This gas can be obtained from wood alcohol by passing the vapor over finely divided platinum. Many generators and lamps have been devised for the purpose of disinfection by means of this substance, and the Commissioner of Health and the Bacteriologist performed the following experiments in order to gain some personal experience with the germicidal properties of formaldehyde.

A series of investigations were made at the Health Department in order to determine the utility and effectiveness of formaldehyde gas and the power it posesses of destroying bacteria under conditions usually found in ordinary households.

The object in view was the determination of its value in the surface sterilization of rooms, as well as its power to detroy bacteria in the deeper portions of such absorbent articles as mattresses, blankets and other household articles.

In all the experiments, we endeavored to place the cultures in such positions as would best represent the conditions in a room in which a communicable disease had existed. We selected the organisms of diphtheria and typhoid fever as fairly representative of the usual diseases with which one might deal, while the staphylococcus pyogenes aureus was used on account of its universal distribution throughout nature. The anthrax bacillus was also chosen because of its powers of resistance to the usual agents of destruction. The first series of experiments was performed with the Schering formalin disinfector. This apparatus, as is well known, practically consists of an alcohol lamp, which burns under a reservoir containing a number of solid pastils of polymerized formalin, or tri-oxymethylene. The heat of the flame causes the pastils to vaporize, and formaldehyde gas is given off.

Following out the work of Aronson, we used seventy-five pastils for a room of 1,248 cubic feet. This was said to be enough for a thorough surface disinfection.

The following materials containing bacteria were exposed in the room:

No. 1. The Staphylococcus pyogenes aureus dried on linen and then placed in a Petri dish.

No. 2. The diphtheria bacillus dried on linen and attached to the wall about three feet from the floor.

No. 3. The Staphylococcus pyogenes aureus dried on linen and attached to the wall three feet from the floor.

No. 4. The typhoid bacillus dried on linen and attached to the wall midway between the floor and the ceiling.

No. 5. The anthrax bacillus dried on linen and attached to the ceiling.

No. 6. Two specimens of the anthrax bacillus dried on linen and attached to the wall four feet from the floor.

No. 7. Anthrax dried on linen and attached near the floor.

All of these specimens were prepared from twenty-hour cultures of the above-mentioned organisms.

As soon as the room was opened, the materials were removed and portions were at once placed upon slanted glycerin-agar tubes by means of sterile forceps. These all remain sterile after exposure in the thermostat, showing that the gas caused a thorough surface disinfection of the room.

A series of experiments were also performed at the same time, in order to study the penetrative properties of this gas, when generated by the apparatus just described, and for this purpose, bacteria were exposed under the following conditions:

No. 1. Bouillon culture of the anthrax bacillus, one millimeter deep in a covered Petri dish, wrapped in five layers of plain cotton.

No. 2. Linen with dried culture of the Staphlyococcus pyogenes aureus in eight layers of towels.

No. 3. Moist culture of the Staphylococcus pyogenes aureus on linen in eight layers of towels.

No. 4. Anthrax bacillus dried on linen in a Petri dish wrapped in one layer of cotton.

No. 5. Moist linen containing the diphtheria bacillus in four layers of plain cotton. Each layer of the cotton was about one centimeter thick.

Cultures from all these materials give luxuriant growth, showing that the gas was not able to act by penetrating the meshes of plain cotton or towels.

Control cultures also grew from the above organisms dried on linen slips which were not exposed to the atmosphere of formaldehyde gas.

These results about accord with those obtained by Aronson, who found that this apparatus would practically destroy such bacteria as the Staphylococcus pyogenes aureus, the streptococcus, the bacillus pyocyaneus, typhoid and diphtheria bacilli, and the tubercle bacillus, when superficially exposed. When bacteria were placed in the compressed pockets of a coat or in the middle of a pillow, no destruction of the organisms took place, and he considered steam a better disinfecting agent for such thick material.

We are convinced by personal trial that this apparatus will cause satisfactory surface disinfection in ordinary dwelling rooms, if 1 gram is used for about every 15 cubic feet.

We next turned our attention to a formaldehyde generator, which might destroy bacteria in the depths of such bulky structures as mattresses and blankets. For this purpose we chose the Trillat autoclave.

The same room was used, and in the first series of tests, gas was evolved at a pressure of 2 atmospheres for one hour, and 1 liter of formochlorol was evaporated.

The following substances, containing bacteria, were exposed in the room:

No. 1. The diphtheria bacillus, dried on linen and attached to wall.

No. 2. The typhoid bacillus; same conditions.

No. 3. The Staphylococcus pyogenes aureus; same conditions.

No. 4. The anthrax bacillus; same conditions.

These were all dried in a vacuum and then exposed at varying heights from the floor to the ceiling.

No. 5. The Staphylococcus pyogenes aureus, dried on linen and then covered with eight layers of blankets.

No. 6. The anthrax bacillus, dried on linen and then covered with eight layers of blankets.

No. 7. The aureus, on linen in a sealed envelope in the middle of a straw mattress.

Nos. 9, 10 and 11. Typhoid, diphtheria and anthrax bacilli, in mattress just as No. 7.

Cultures from all of these substances, with the exception of No. 6, remained sterile, but this organism survived the disinfection and gave a well-marked growth. Control cultures, made from the above-mentioned organisms, dried on linen and not exposed to the gas, showed well-marked growths after twenty-four hours.

A second series of experiments were also performed in the same room with the Trillat autoclave, the gas being generated for an hour and a half at the pressure of 2 atmospheres, and 1.5 liters of formochloral being evaporated.

The following test organisms were exposed during the operation:

No. 1. A moist cloth, saturated with a bouillon suspension of the staphylococcus pyogenes aureus, kept moist in a Petri dish.

Nos. 2 and 3. The typhoid and anthrax bacilli exposed under similar conditions to that of No. 1.

A number of bacteria were placed in the middle of a straw mattress. Openings were made in the ticking in order to introduce the specimens. The mattress was then reversed so that the openings were closed by contact with the floor. This caused the formaldehyde to penetrate the ticking as well as the inside straw.

The following objects were placed in the middle of the mattress:

No. 4. Aureus on moist linen in a covered Petri dish.

No. 5. Three specimens of the aureus dried on linen and placed in a sealed envelope

Nos. 6 and 7. Typhoid and anthrax bacilli exposed under conditions similar to No. 5. Three specimens of each.

No. 8. The typhoid bacillus dried on cloth and placed in a closed Petri dish.

Bacteria were also placed between a varying number of layers of a blanket.

No. 9. Two specimens of the anthrax bacillus, dried on linen in sealed envelopes, under one layer of a blanket.

No. 10. Same as No. 9, under four layers of a blanket (above and below.)

No. 11. The staphylococcus pyogenes aureus, dried on linen in a sealed envelope, under eight layers of blanket (above and below.)

Several specimens were also placed in the pockets of a coat.

No. 12. The typhoid bacillus, dried on cloth and placed in an envelope in an outside pocket of a coat, pocket then closed.

No. 13. Aureus, same as No. 12.

Nos. 14, 15 and 16, were the aureus, the typhoid and the anthrax bacillus, dried on linen, and attached to the wall midway between the floor and ceiling.

Nos. 17, 18 and 19. Aureus, typhoid and anthrax bacillus, dried on linen in a sealed envelope, and attached to the wall.

Cultures from all of the objects above mentioned, with the exception of No. 3, remained sterile. Control cultures from linen, not exposed to the gas, grew luxuriantly.

The results, therefore, show that not only could complete surface disinfection be easily obtained, but that germs in mattresses, envelopes and blankets, could also be destroyed both in moist and dry conditions, when about one liter was evaporated for every 1,000 cubic feet.

Although we believe that the hangings and ordinary paraphernalia of a room can be disinfected by this method, we think that steam should be used for such bulky things as mattresses, etc.

The next series of experiments were performed with the apparatus called the Sanitary Construction Company's regenerator. About one litre of formalin was generated in thirty minutes, the gas entering the same room through the keyhole. The room was closed for twenty-four hours, and the cultures were then made from the following substances which had been exposed to the gas. The results follow, and showed satisfactory surface disinfection:

Anthrax dry on wall—two cultures. No growth.

Typhoid dry on linen on wall. No growth.

Diphtheria on linen on wall. No growth.

Staphylococcus pyogenes aureus on linen on wall. No growth.

Typhoid in pocket on linen in envelope. One no growth; 1 growth.

Aureus in pocket on linen in envelope. Growth.

The following cultures were placed in the middle of a straw mattress:

Anthrax moist on linen. Growth.

Anthrax dry on linen—three cultures. No growth.

Diphtheria dry on linen in envelope. Two growth; 1 sterile.

Typhoid in envelope dry on linen. One no growth; 1 growth.

Aureus dry on linen in envelope. Two growth.

BETWEEN FOLDS OF A BLANKET.

One layer of a blanket, diphtheria on linen in envelope. Two no growth.

Two layers of a blanket, dipththeria on linen in envelope. One no growth,

Four layers of a blanket, anthrax and diphtheria on linen in envelope. Anthrax, no growth; diphtheria, growth.

Eight layers of a blanket. Anthrax, no growth. Diphtheria, typhoid and aureus showed a growth.

Moist typhoid on cloth in dish under four layers. Growth.

Moist aureus on cloth in dish in mattress. Growth.

Moist diphtheria on cloth in dish under two layers. Growth.

Moist anthrax on cloth in dish in the room. Growth.

Controls on cloth all grew. Some experiments were also performed in order to determine whether a cloth which had been exposed to an atmosphere of the gas would absorb enough formaldehyde to prevent the growth of bacteria when the cloth was first smeared over the tube of slanted agar. Pieces of cloth were taken at once from the room upon opening and rubbed on culture tubes. These were at once inocculated with cultures of the germs just mentioned, and the tubes thus treated showed well-marked growths in twenty-four hours.

THE MICROSCOPIC EXAMINATION OF MILK.

It is well known that milk is a favorable medium for the development of many pathogenic bacteria, and the microscope is often of use in detecting the presence of a serious contamination in milk, namely, pus. Many cows are subject to an inflammatory condition of the teats, or udders, called garget. The milk from such animals often contains large numbers of pus cells, and it follows that such milk must often contain the accompanying organ-

isms of suppuration. The Health Department and the State Veterinarian have already reported the existence of garget as an epidemic affecting a herd of seventy cows, and this disease has often been observed by many other observers. The prevalence of the acute intestinal disorders among children using cows' milk is well known, and many of these conditions are caused by the organisms of suppuration. It would seem, therefore, that milk from diseased cows containing these germs might often be the means of causing intestinal troubles, especially in young infants.

In order to gain an idea of the condition of cows supplying the city with milk, the bacteriologist, assisted by Dr. Arthur Wegefarth, undertook to estimate the average number of pus cells per field in the stained centrifugalized sediment from ten cubic centimeters of milk taken from various individual cows. They are graded according to the following conditions, and the tables will show the relative prevalence of pus cells in the milk of cows kept under various conditions. Those cows, whose milk contained over 5 pus cells per field, were considered unfit for milking purposes.

No. 1 consists of 100 cows in the country, kept in a well-ventilated stable, with good roomy stalls and good pasturage. They are fed while in the stable on bran, ground corn and hay. The cows are curried and cleansed daily. The herds are inspected by competent veterinary surgeons, and all sick animals are isolated. The usual precautions regarding cleanly milking are observed.

No. 2 consists of 50 cows in the country having badly ventilated stables, narrow stalls and bad pasturage. They are fed on distillery grains, cut hay and bran, the precautions mentioned above as regards inspection and cleanly milking are not observed.

No. 3 consists of 100 cows kept in the city, always confined to stables, with narrow stalls, no ventilation, light or pasturage. They are fed on brewery grain, distillery slops, bran and hay. The cows, as a rule, never leave the stable until they go dry or are taken out to be exchanged. The milk was furnished by the city veterinarian, Dr. George C. Cornelius, who was careful to select different sections of the city, and who personally superintended the drawing of the milk.

The results follow: Examinations by 1-12 inch oil immersion lens:

| Cows. | Grade 1st. Pus Cells. | Grade 2d. Pus Cells. | Grade 3d. Pus Cells. |
|---|---|---|---|
| 1 | 0 | 0 | .1 |
| 2 | 0 | 0 | .1 |
| 3 | 0 | 0 | .1 |
| 4 | 0 | .1 | .1 |
| 5 | 0 | .1 | .1 |
| 6 | 0 | .3 | .2 |
| 7 | 0 | .3 | .2 |
| 8 | 0 | .3 | .2 |
| 9 | 0 | .4 | .6 |
| 10 | 0 | .4 | .7 |
| 11 | 0 | .4 | .8 |
| 12 | 0 | .5 | .8 |
| 13 | 0 | .7 | 1.0 |
| 14 | 0 | .9 | 1.1 |
| 15 | 0 | 1.0 | 1.1 |
| 16 | 0 | 1.0 | 1.3 |
| 17 | 0 | 1.5 | 1.5 |
| 18 | 0 | 1.7 | 1.5 |
| 19 | 0 | 2.1 | 1.6 |
| 20 | 0 | 2.1 | 1.6 |
| 21 | 0 | 2.3 | 1.8 |
| 22 | 0 | 2.4 | 1.9 |
| 23 | 0 | 3.1 | 2.0 |
| 24 | 0 | 3.6 | 2.1 |
| 25 | 0 | 3.7 | 2.7 |
| 26 | 0 | 3.7 | 2.8 |
| 27 | 0 | 4.8 | 2.8 |
| 28 | 0 | 4.9 | 2.8 |
| 29 | 0 | 6.0 | 3.0 |
| 30 | 0 | 7.0 | 3.5 |
| 31 | 0 | 7.2 | 3.5 |
| 32 | .1 | 7.5 | 4.0 |
| 33 | .1 | 10.8 | 4.0 |
| 34 | .1 | 12.5 | 4.0 |
| 35 | .1 | 13.8 | 4.2 |
| 36 | .1 | 13.4 | 4.3 |
| 37 | .1 | 14.8 | 4.8 |
| 38 | .1 | 15.3 | 4.9 |
| 39 | .1 | 15.6 | 5.3 |
| 40 | .1 | 17.5 | 5.9 |
| 41 | .1 | 23.8 | 5.9 |
| 42 | .1 | 24.3 | 6.4 |
| 43 | .1 | 24.3 | 6.5 |
| 44 | .1 | 28.0 | 7.0 |
| 45 | .1 | 28.4 | 8.1 |
| 46 | .2 | 31.9 | 8.1 |
| 47 | .2 | 35.7 | 8.3 |
| 48 | .2 | 37.4 | 8.4 |
| 49 | .2 | 54.3 | 8.8 |
| 50 | .2 | 54.3 | 8.8 |

| Cows. | Grade 1st. Pus Cells. | Grade 2d. Pus Cells. | Grade 3d. Pus Cells. |
|---|---|---|---|
| 51 | .3 | ..... | 9.0 |
| 52 | .3 | ..... | 9.1 |
| 53 | .3 | ..... | 9.6 |
| 54 | .3 | ..... | 9.8 |
| 55 | .3 | ..... | 10.4 |
| 56 | .4 | ..... | 10.9 |
| 57 | .4 | ..... | 11.6 |
| 58 | .4 | ..... | 12.2 |
| 59 | .4 | ..... | 12.8 |
| 60 | .4 | ..... | 12.8 |
| 61 | .4 | ..... | 13.0 |
| 62 | .5 | ..... | 13.4 |
| 63 | .5 | ..... | 14.0 |
| 64 | .6 | ..... | 14.6 |
| 65 | .6 | ..... | 14.6 |
| 66 | .6 | ..... | 14.8 |
| 67 | .7 | ..... | 15.0 |
| 68 | .7 | ..... | 16.3 |
| 69 | .7 | ..... | 17.9 |
| 70 | .8 | ..... | 18.7 |
| 71 | .8 | ..... | 19.6 |
| 72 | .8 | ..... | 19.5 |
| 73 | .8 | ..... | 21.5 |
| 74 | 1.0 | ..... | 22.5 |
| 75 | 1.0 | ..... | 19.5 |
| 76 | 1.3 | ..... | 23.5 |
| 77 | 1.3 | ..... | 23.8 |
| 78 | 1.5 | ..... | 24.0 |
| 79 | 1·5 | ..... | 24.4 |
| 80 | 1.6 | ..... | 28.9 |
| 81 | 1.6 | ..... | 30.8 |
| 82 | 1.6 | ..... | 31.4 |
| 83 | 2.6 | ..... | 31.9 |
| 84 | 2.7 | ..... | 32.3 |
| 85 | 2.9 | ..... | 35.0 |
| 86 | 2.9 | ..... | 36.3 |
| 87 | 3.2 | ..... | 36.9 |
| 88 | 3.6 | ..... | 44.0 |
| 89 | 3.6 | ..... | 47.2 |
| 90 | 4.0 | ..... | 52.2 |
| 91 | 4.1 | ..... | 54.8 |
| 92 | 4.2 | ..... | 55.2 |
| 93 | 4.8 | ..... | 57.1 |
| 94 | 5.1 | ..... | 61.5 |
| 95 | 5.3 | ..... | 76.0 |
| 96 | 5.9 | ..... | 79.8 |
| 97 | 6.2 | .... | 95.2 |
| 98 | 8.0 | ..... | 107.8 |
| 99 | 12.7 | ..... | 118.8 |
| 100 | 16.4 | ..... | 158.5 |

The above tables show that grade No. 1 gives a general average of 1.1 pus cells to the field.

No. 2 gives an average of 11.3, while No. 3 shows 19.2. In herd No. 1, practically no pus organism, such as streptococci or staphylococci were found. Herd No. 3 showed streptococci present in large numbers; by cover slip in eight instances. The regular nucleus of the epithelial cell enabled us to exclude these bodies in our counts.

The milks mixed from the various herds of grade No. 3 showed streptococci, bacteria and pus.

The highest number of the pus cells in any one cow was 158.5 to the field. The lowest in grade No. 3 was .1, and there were only 5 which gave this percentage, while in grade No. 1 there were 45.

Seventy-five cows gave an average in grade No. 1 of less than 1 cell to the field, while in grade No. 3, out of 100 cows, there were 12.

Ninety-three cows out of 100 in grade No. 1 gave less than 5 cells to the field, while in grade No. 3, 38 gave this average.

Ninety-eight cows in grade No. 1 out of 100, give less than 10 cells to the field; in No. 3 grade, 54 out of 100 showed this number.

## CONCLUSIONS.

Garget, or inflammation of the udder or teats, is a not infrequent condition among the many herds supplying milk to various cities or communities.

Milk from such animals often contain many pus cells, and the accompanying organisms of suppuration.

The study of the epidemic just described, as well as the important work of Booker and others, certainly strongly suggests that such milk is capable of causing the various forms of gastro-enteritis, especially in children and infants.

The microscopic examination of the centrifugalized sediment of the milk from a herd of cattle if found to contain an excessive amount of pus, should suggest a careful inspection of the herd.

The chance of infection from drinking milk from a large herd can be lessened by making a microscopic examination of the

centrifugalized specimen from each cow, and by the exclusion of such cows from the herd as may be found to contain an excessive amount of pus in their milk.

The standard for exclusion must of necessity be arbitrary, but following the method above-described, an average of more than 5 pus cells to the field of the oil immersion lens should exclude an animal from the herd.

Our results lead us to the conclusion that cows kept in the country, under the conditions noted in regard to grade No. 1, will furnish milk less capable of causing disease than the milk furnished by grade No. 2 and No. 3.

In Baltimore, a city of 500 000 inhabitants, there were 412 deaths from cholera infantum during the year of 1896. This disease is more prevalent among children using cows' milk.

We believe that proper legislation, looking to the examination of dairy herds and the supervision of dairy stables in the entire State, would prevent many deaths from the various intestinal inflammatory diseases.

Such legislation seems already practically embodied in "An ordinance to better protect the public health," approved by the Mayor of Baltimore, April 21, 1896, which might be applied to the entire State.

We would respectfully suggest that the proper food be more clearly stated, and that distillery slop and brewery grains be prohibited as an exclusive diet.

It is not claimed that milk which has not undergone such tests will necessarily cause disease, but certainly the adoption of such measures will tend towards securing a purer milk supply and lessening the danger of disease through infected milk.

Of course, the employment of such tests as those described above would be rendered unneccessary if some cheap method could be devised which would render milk sterile without altering its nutritious properties. When such a fluid can be furnished to the community, the large infant death rate from intestinal diseases should be greatly lessened, and proper infant feeding rendered a more effective guard against disease.

In conclusion, the bacteriologist wishes to thank the Commissioner of Health for his many valuable suggestions and active interest concerning the department.

The laboratory is also indebted to Dr. G. W. Lehmann, City Chemist, for his kindly advice and assistance. Dr. Arthur Wegefarth, Vaccine Physician, has rendered valuable aid, not only in several original investigations, but also in the routine laboratory work during the year.

Respectfully submitted.

WM. ROYAL STOKES, M.D.,

*Bacteriologist to the Health Department.*

# Report of the Inspector of Bakeries.

BALTIMORE, January 3, 1898.

*James F. McShane, M.D., Commissioner of Health:*

SIR: I respectfully submit the following report of inspections made during the year ending December 31, 1897:

| | |
|---|---|
| Number of Bakeries in Baltimore | 490 |
| " " " situated in cellars | 261 |
| Number of inspections | 1,350 |
| Number of bakeries ordered cleaned and whitewashed | 109 |
| Stables ordered cleaned | 3 |
| Yards ordered drained | 9 |
| " " cleaned | 4 |
| Manure pits ordered reconstructed | 6 |
| Privies ordered reconstructed | 5 |
| " " cleaned | 106 |
| Number of notices to clean utensils and receptacles | 52 |
| Cellars ordered drained | 4 |
| Gutters ordered repaired | 2 |
| Notices to remove sleeping apartments from cellars | 17 |
| Samples of taffy, penny goods and cakes for analysis | 10 |
| Egg substitute | 1 |
| Miscellaneous | 3 |

I respectfully call your attention to the following suggestions: That provisions should be made—

1. That all utensils and receptacles used in bakeries shall be kept clean.

2. That no one shall sit or lie on appliances used for making bread or cakes.

3. That all bake shops shall be whitewashed every spring and fall. If painted, tiled or wainscoted, shall be washed or painted when soiled.

4. That all bakeries shall be provided with air shafts or windows sufficient to insure proper ventilation.

5. That all bake shops shall be eight feet in height and the floors kept in good repair.

Respectfully,

G. FREDERICK RUECKERT,

*Inspector of Bakeries.*

# Report of the Inspector of Meats, Fish, Etc.

| | |
|---|---|
| Visits to abattoirs | 167 |
| " private slaughter-houses | 329 |
| " markets | 1,147 |
| " provision stores | 7,674 |
| Total | 9,317 |

CONDEMNED AND DESTROYED.

| | | |
|---|---|---|
| Beef—Fresh, 1,935 lbs.: corned, 380 lbs. | 2,315 | lbs. |
| Mutton | 1,040 | " |
| Pork | 186 | " |
| Veal | 230 | " |
| Bacon | 990 | " |
| Liver | 560 | " |
| Sausage | 85 | " |
| Poultry | 415 | " |
| Crabs | 200 | doz. |
| Rabbits | 215 | " |
| Vegetables | 100 | bus. |

T. EUGENE CARMICHAEL. *Inspector.*

# Report of the Superintendent of Public Cemeteries.

BALTIMORE, MD., January 3, 1898.

*James F. McShane, M D., Commissioner of Health:*

I beg to submit the following report of work performed by me as Superintendent of Public Cemeteries for the year ending December 31, 1897.

The table below gives a condensed statement of all work performed, such as interments in public and private cemeteries; bodies removed to city morgue; bodies given to the Board of Anatomy, in accordance with the requirements of Chapter 166, Laws of Maryland, 1890; number of houses from which infected bedding, etc., was removed and destroyed; number of patients removed to hospitals, etc.

| | |
|---|---|
| Buried in public cemeteries | 709 |
| " " private " | 127 |
| Transferred to the Board of Anatomy | 68 |
| Taken to the City Morgue | 195 |
| Infected goods destroyed from houses | 160 |
| Patients removed to hospitals | 10 |
| Patients removed to Bay View Asylum | 5 |

Respectfully submitted.

EMORY M. STEVENSON,

*Superintendent of Public Cemeteries.*

SIXTY-NINTH ANNUAL REPORT

—OF THE—

# BOARD OF COMMISSIONERS OF PUBLIC SCHOOLS

—TO THE—

## Mayor and City Council of Baltimore,

—FOR THE—

FISCAL YEAR ENDING DECEMBER 31st, 1897.

# BOARD OF COMMISSIONERS OF PUBLIC SCHOOLS

## FOR 1897.

### OFFICERS:

PRESIDENT..... HENRY F. NEW.
SECRETARY.....CHARLES F. BENDER.
SUPERINTENDENT .....HENRY A. WISE.
ASSISTANT SUPERINTENDENT .....JOHN E. McCAHAN.
ASSISTANT SECRETARY .....WILLIAM H. SCHILLING.
SUPERINTENDENT OF SUPPLIES .....JAMES F. MORGAN.
LIBRARIAN.....SOLOMON L. AUERBACH.
CLERK TO SECRETARY..... .....ALBERT MARSHALL.

### MEMBERS OF THE BOARD:

HON. ALCAEUS HOOPER, MAYOR.
HON. WILLIAM T. MALSTER, MAYOR.

| *Ward.* | *Name.* | *Address.* | *Term Expires.* |
|---|---|---|---|
| 1. | EDWIN J. GRIFFIN..... | 2212 E. Pratt street..... | 1901 |
| 2. | JOHN H. HORST..... | 1815 Eastern avenue..... | 1899 |
| 3. | EDWARD ESSLINGER..... | 1514 E. Baltimore street.... | 1900 |
| 4. | EMANUEL H. FRIED ..... | 307 N. Gay street ..... | 1898 |
| 5. | HENRY J. BENTZEL..... ..... | 710 Aisquith street..... .... | 1901 |
| 6. | ADOLPH P. SCHUCH..... | 1939 Orleans street..... | 1900 |
| 7. | MARTIN B. BILLINGSLEA, M.D. | 1206 E. Preston street..... | 1898 |
| 8. | JOHN T. FOLEY ..... | 1110 Homewood avenue.... | 1899 |
| 9. | MICHAEL SHEEHAN..... | 8 Light street..... | 1899 |
| 10. | JOHN T. MORRIS..... .. | 215 N. Charles street..... | 1898 |
| 11. | WILLIAM W. DIX..... | 310 W. Madison street ..... | 1900 |
| 12. | DR. G. LANE TANEYHILL..... | 1103 Madison avenue..... | 1901 |
| 13. | HARRY K. MULLER ..... | 202 W. Lexington street ... | 1899 |
| 14. | CHARLES H. GATCH..... | 315 N. Carrollton avenue... | 1900 |
| 15. | NELSON BAKER..... | 216 E. Montgomery street.. | 1901 |
| 16. | JOHN D. BLAKE, M.D..... | 602 S. Paca street..... | 1898 |
| 17. | BENJAMIN F. HISS..... | 11 E. Randall street ..... | 1900 |
| 18. | ROBERT H. CORNTHWAITE ... | 720 St. Peter street ..... | 1898 |
| 19. | MERVILLE H. CARTER, M.D.. | 1800 W. Baltimore street... | 1899 |
| 20. | COLUMBUS C. ISAACS..... | 702 N. Carrollton avenue... | 1901 |
| 21. | HENRY F. NEW ..... | West Arlington..... | 1901 |
| 22. | CHARLES H. BOND..... | 729 Gorsuch avenue..... | 1901 |

# LOCAL COMMITTEES.

## GRAMMAR SCHOOLS.

| *No.* | *Location.* | *Committee.* |
|---|---|---|
| 1 | Male—N. E. corner Fayette and Greene streets | Messrs. Morris and Muller. |
| | Female—S. W. corner Fayette and Greene streets | " Muller and Morris. |
| 2. | Broadway and Bank street | " Horst and Esslinger. |
| 3. | High street, near Fayette | " Esslinger and Fried. |
| 4. | Sharp street, near Montgomery | " Baker and Hiss. |
| 5. | Greenmount ave. and Eager st. | " Foley and Billingslea. |
| 6. | Division street, near Lanvale | " Taneyhill and Isaacs. |
| 7. | Eastern and Montford avenues | " Griffin and Horst. |
| 8. | Hollins and Monroe streets | " Cornthwaite and Carter. |
| 9 | Male—808 N. Calvert street... Female—411 Courtland street. | " Sheehan and Dix. |
| 10. | William street and Warren ave. | " Hiss and Baker. |
| 11. | Bond and Jefferson streets | " Schuch and Bentzel. |
| 12. | Ridgely street, near Fremont | " Blake and Cornthwaite. |
| 13. | Aisquith street, near Lexington. | " Esslinger and Bentzel. |
| 15. | Carrollton ave. and Lexington st. | " Gatch and Carter. |
| 16. | Hull and Clement streets | " Hiss and Baker. |
| 17. | Washington street, near Fayette. | " Schuch and Esslinger. |
| 18. | Harlem avenue and Monroe st | " Carter and Isaacs. |
| 19. | Park avenue and Hoffman st | " Taneyhill and Sheehan. |
| 20. | Eden and Federal streets | " Billingslea and Foley. |
| 21. | Gilmor and Presstman streets | " Isaacs and Gatch. |
| 22. | Mulberry street, near Fremont | " Morris and Muller. |

## PRIMARY SCHOOLS.

| | | |
|---|---|---|
| 1 | Male—N. E. corner Fayette and Greene streets | Messrs. Morris and Muller. |
| | Female—S. W. corner Fayette and Greene streets | " Muller and Morris. |
| 2. | Gough and Stiles streets | " Fried and Esslinger. |
| 3. | High street, near Fayette | " Fried and Bentzel. |
| 4. | Hanover and Lee streets | " Baker and Hiss. |
| 5. | Broadway and Ashland avenue. | " Billingslea and Foley. |
| 6. | Ann street, near Canton avenue. | " Horst and Esslinger. |
| 7. | Mullikin street, near Aisquith | " Fried and Schuch. |
| 8. | Caroline street, near Lombard | " Esslinger and Schuch. |
| 10. | Hollins street, near Schroeder | " Muller and Blake. |
| 11. | Gilmor and Mosher streets | " Carter and Isaacs. |
| 12. | Barre and Warner streets | " Blake and Cornthwaite. |
| 13. | Patterson P'k av. & McElderry st | " Schuch and Griffin. |
| 14. | Linden avenue and Wilson st | " Taneyhill and Dix. |
| 15. | Carrollton ave. and Saratoga st. | " Gatch and Carter. |
| 16. | Harford and Ashland avenues | " Foley and Bentzel. |
| 17. | Light and Poultney streets | " Hiss and Baker. |

LOCAL COMMITTEES—*Continued.*

| | | |
|---|---|---|
| 18. | Argyle avenue, near Lanvale st. | Messrs. Isaacs and Taneyhill. |
| 19. | Park avenue and Hoffman st. | " Sheehan and Taneyhill. |
| 20. | Preston and Eden streets | " Billingslea and Foley. |
| 21. | Pennsylvania av. and Robert st. | " Isaacs and Taneyhill. |
| 22. | Ramsay street, near Scott | " Cornthwaite and Blake. |
| 23. | Gough and Wolfe streets | " Griffin and Horst. |
| 24. | Fait avenue and Patuxent st. | " Griffin and Horst. |
| 25. | Bond street, near Canton ave. | " Horst and Esslinger. |
| 26. | Orleans street, near Bond. | " Schuch and Fried. |
| 27. | Fayette and Chester streets | " Griffin and Schuch. |
| 28. | Battery avenue and Clement st. | " Hiss and Baker. |
| 29. | Sharp street, near West | " Baker and Blake. |
| 30. | Hollins street, near Monroe | " Carter and Cornthwaite. |
| 31. | Schroeder and Pierce streets | " Gatch and Morris. |
| 32. | Guilford avenue and Lanvale st. | " Foley and Dix. |
| 33. | Light and Clement streets | " Hiss and Baker. |
| 34. | James street, near Carey | " Blake and Cornthwaite. |
| 35. | Hanover street, near Winder | " Hiss and Baker. |
| 36. | 2223 E. Baltimore street | " Griffin and Schuch. |
| 37. | Patterson Park av. and Biddle st. | " Schuch and Bentzel. |
| 38 | Male—Chesapeake &O'Donnell sts<br>Fem.—Chesapeake & Hudson sts | " Griffin and Horst. |

ENGLISH-GERMAN SCHOOLS.

| | | |
|---|---|---|
| 1. | Druid Hill ave., near Biddle st. | Messrs. Taneyhill and Dix. |
| 2. | Charles and Ostend streets | " Hiss and Baker. |
| 3. | Baltimore street, near Aisquith. | " Esslinger and Fried. |
| 4. | Chase and McDonogh streets | " Bentzel and Billingslea. |
| 5. | Lexington street, near Fremont. | " Muller and Morris. |
| 6. | Ramsay and Smallwood streets | " Carter and Muller. |
| 7. | 117 Jackson place | " Schuch and Esslinger. |

COLORED SCHOOLS.

| | | |
|---|---|---|
| High— | Saratoga street, near Charles. | Messrs. Sheehan and Dix. |
| 1. | Gram.—Saratoga st. near Charles | " Sheehan and Dix. |
| 2. | Grammar—Jefferson street, near Caroline | " Schuch and Fried. |
| 3. | Grammar—Howard and Montgomery streets | " Baker and Blake. |
| 1 | Male—413 Courtland street...<br>Female—Saratoga street, near Charles | " Dix and Sheehan. |
| 2. | Rogers ave., near Lexington st. | " Bentzel and Fried. |
| 3. | Hill street, near Sharp | " Baker and Hiss. |
| 4. | Biddle st., near Pennsylvania av. | " Taneyhill and Dix. |
| 5. | Caroline street, near Bank | " Horst and Griffin. |
| 6. | Barre street, near Eutaw | " Blake and Cornthwaite. |
| 7. | Waesche st., near Fremont ave. | " Muller and Morris. |
| 8. | Bond street and Ashland ave. | " Bentzel and Billingslea. |
| 9. | Carrollton and Riggs avenues. | " Isaacs and Gatch. |
| 10. | Girard ave. and Sherman place. | " Bond and Bentzel. |

## ANNEX SCHOOLS.

| | | | |
|---|---|---|---|
| 1. | Gorsuch ave. and Tyler street.. | Messrs. | Bond and Foley. |
| 2. | York road, near Merryman's lane | " | Bond and New. |
| 3 | M. G.—Oak and 24th streets.. / F. G.—St. Paul and 26 sts..... / F. P.—St. Paul and 26th sts... | " | Bond and Taneyhill. |
| 4. | Chestnut and 37th streets..... | " | Bond and New. |
| 5. | Hickory ave., near 37th street.. | " | New and Bond. |
| 6. | Chestnut avenue and 37th street. | " | New and Bond. |
| 7. | Woodberry av., near Hooper av. | " | New and Bond. |
| 8. | Francis and Clifton streets..... | " | New and Isaacs. |
| 9. | Lafayette avenue extended..... | " | New and Isaacs. |
| 10. | Old Frederick road, near 13th st. | " | New and Carter. |
| 11. | Millington ave. and Lehman st. | " | Gatch and New. |
| 13. | North ave. and Washington st.. | " | Bentzel and Foley. |
| 14. | Park Heights avenue..... | " | New and Bond. |
| 15. | Ninth and Northwest streets.... | " | Gatch and New. |
| 16. | 25th street, near Charles..... | " | Bond and Taneyhill. |
| 17. | Old Frederick rd. & Fairview av. | " | New and Carter. |
| 18 | M. & F. G. & P.—Linden ave. / and Konig street..... | " | New and Bond. |
| 19. | Church st., nr. Merryman's lane. | " | Bond and Foley. |
| 1. | Colored—Merryman's lane..... | " | Bond and New. |
| 2. | Colored—Calverton road and Edmondson avenue..... | " | New and Isaacs. |
| 3. | Colored—Frederick road, near tollgate..... | " | Carter and New. |

## NIGHT SCHOOLS.

| | | | |
|---|---|---|---|
| Polish—Eastern ave., nr. Broadway. | | Messrs. | Horst and Esslinger. |
| Bohemian—Bond and Ashland ave.. | | " | Schuch and Billingslea. |
| 1. | N. E. Cor. Greene & Fayette sts. | " | Muller and Morris. |
| 2. | Bank street and Broadway ..... | " | Horst and Griffin. |
| 3. | High street, near Fayette..... | " | Esslinger and Fried. |
| 5. | Greenmount ave. and Eager st.. | " | Foley and Billingslea. |
| 8. | Hollins street, near Fulton ave. | " | Carter and Gatch. |
| 11. | Washington st., near Fayette... | " | Schuch and Griffin. |
| 12. | Ridgely street, near Fremont... | " | Cornthwaite and Blake. |
| 17. | Light and Poultney streets..... | " | Baker and Hiss. |
| 1. | Col.—Saratoga st., near Charles. | " | Dix and Sheehan. |
| 3. | Col.—Howard and Montgomery. | " | Baker and Blake. |
| 4. | Col.—Biddle st., nr. Penna ave. | " | Taneyhill and Isaacs. |
| 7. | Annex—Woodberry avenue, near Hooper avenue..... | " | New and Bond. |

# STANDING COMMITTEES.

1.—Baltimore City College.

Messrs. Muller, Morris, Griffin, Blake, President and Superintendent.

2.—Female High Schools.

Messrs. Morris, Taneyhill, Billingslea, Gatch, Fried, Griffin, President and Superintendent.

3.—Grammar Schools.

Messrs. Bond, Fried, Foley, Hiss, Carter, President and Superintendent.

4.—Primary Schools.

Messrs. Esslinger, Billingslea, Gatch, Sheehan, Baker and Assistant Superintendent.

5.—English-German Schools.

Messrs. Isaacs, Horst, Bentzel, Billingslea and Esslinger.

6.—Polytechnic Education.

Messrs. Gatch, Morris, Bond, Dix, Muller, Horst, President and the Mayor.

7.—Colored Schools.

Messrs. Bentzel, Dix, Schuch, Hiss, Cornthwaite and Superintendent.

8.—Normal Schools.

Messrs. Taneyhill, Isaacs, Carter and Superintendent.

9.—Text Books.

Messrs. Griffin, Muller, Billingslea, Taneyhill, Dix, President, Superintendent and Assistant Superintendent.

10.—Furniture.

Messrs. Fried, Dix, Griffin, Baker and Blake.

11.—Music.

Messrs. Bond, Muller, Blake, Fried and President.

12.—Discipline.

Messrs. Muller, Horst, Esslinger, Bond, Blake, President, Superintendent and Assistant Superintendent.

13.—Accounts.

Messrs. Bond, Billingslea, Muller, Dix and Hiss.

14.—Expenditures.

Messrs. Gatch, Esslinger, Billingslea, Bentzel, Dix and President.

STANDING COMMITTEES—*Concluded.*

15.—Examinations.

Messrs. Morris, Taneyhill, Dix, President, Superintendent and Assistant Superintendent.

16.—Bi-Weekly Reports.

Messrs. Schuch, Horst and Sheehan.

17.—Conference.

Messrs. Hiss, Horst, Esslinger, Isaacs and Carter.

18.—Buildings.

Messrs. Esslinger, Sheehan, Schuch, Muller, Cornthwaite, President, Superintendent and Assistant Superintendent.

19.—Printing.

Messrs. Bond, Foley and Gatch.

20.—Health.

Messrs. Taneyhill, Billingslea and Blake.

21.—Drawing.

Messrs. Baker, Fried, Sheehan, Isaacs and Carter.

22.—Intestates' Estates.

Messrs. Morris, Griffin and Blake.

23.—Heating Apparatus and Fuel.

Messrs. Isaacs, Bond, Sheehan, Schuch, Blake and President.

24.—Rules.

Messrs. President, Griffin and Blake.

25.—Public School Library.

Messrs. Baker, Fried, Dix, Hiss and President.

26.—Non-Resident Pupils.

Messrs. Griffin, Foley and Bond.

27.—Half-Time Schools.

Messrs. Hiss, Bentzel, Sheehan, President, Superintendent and Assistant Superintendent.

28.—Night Schools.

Messrs. President, Billingslea, Gatch, Foley and Fried.

29.—Sewing.

Messrs. Esslinger, Morris, Gatch, Foley, Fried and President.

# REPORT

—— OF THE ——

# BOARD OF COMMISSIONERS OF PUBLIC SCHOOLS

## OF BALTIMORE.

OFFICE OF THE COMMISSIONERS OF PUBLIC SCHOOLS—
CITY HALL,

BALTIMORE, January 1, 1898.

*To the Honorable the Mayor and City Council of Baltimore:*

The Board of Commissioners of Public Schools of Baltimore City respectfully presents its

SIXTY-NINTH ANNUAL REPORT,

covering its transactions for the past year, with account of receipts and disbursements, and the estimated amount necessary for the expense of the schools for the year 1898.

A careful examination of the annual report of the Committee on Accounts, through whose hands all accounts pass, will enable you to see and fully appreciate the necessity for your liberal co-operation and support. The reports of the superintendents contain detailed information with reference to the work of the schools and offer valuable suggestions for their further development and improvement.

Owing to the litigation in the School Board question during the first quarter of the year by which the Board was "locked out," much valuable time was lost and the Board prevented from prosecuting certain needed reforms and improvements. Nevertheless, the Board went earnestly to work, and prides itself that many

changes and improvements have been made, so that the condition of the schools at the close of the year is much advanced over that of any previous year in the history of the public schools.

The Committee on Text-Books deserves the congratulations of all interested for the good results of their faithful and arduous labors—toiling night and day in their efforts to secure for the schools the latest and best text-books, examining and investigating the many books submitted to them, eliminating from the list many antiquated and unfit books, and substituting therefor improved and modern publications, so that the list now in use contains six hundred and fourteen new and up-to-date books, instead of one hundred and sixty-eight on the old list, many of which had long been out of date.

Besides the addition of new text-books, the Committee added a well-selected list of reference books for teachers, which will be of great service in adding to the professional knowledge of the teachers and enable them to apply better methods of instruction.

A well-chosen list of supplementary reading was also added for instruction in literature, history and science, which should long ago have been introduced in the schools, and we predict marked improvement in these departments of instruction.

Of no less importance was the work of the Committee on Furniture, which also labored hard and long in the selection of the latest improved furniture and school supplies. After visits to the schools of New York, Brooklyn and Philadelphia, for the purpose of ascertaining the styles of furniture used in their schools, the Committee presented a list containing several of the latest improved adjustable desks, which have so many superior advantages over the old desks now in use, both for convenience and the health of the children, and other improved furniture, which, though superior in every respect to the old styles, have been contracted for at considerably less money.

The Committee on Health made thorough investigations of the sanitary condition of the schools, and, together with the Health Commissioner, made many suggestions and recommendations for the correction of the existing evils, which were adopted and the

changes made so far as the limited means of the Board and the Inspector of Buildings were available. Reference to the report of said Committee submitted to the Board on November 16, 1897—pages 380 to 387 of the Journal—will show the thorough and exhaustive manner in which said investigations were made and the deplorable condition in which some of the schools were found, especially the rented buildings.

Your support is asked for a liberal appropriation to the Inspector of Buildings for repairs to school buildings, so that the absolutely necessary improvements for light, ventilation and sanitation can be made, by the lack of which the sight and health of the children is now jeopardized.

## CIVIL SERVICE RULES.

After many futile efforts of the School Board, extending back to 1891, to adopt Civil Service Rules, the Board, through the efforts of a Special Committee appointed for the purpose, finally adopted a set of rules, which, while they may not be perfect, are as nearly so as it was possible for the Board to successfully adopt, as they overcome many of the difficulties which confront the Commissioners in their efforts to successfully secure the best possible service for the schools. By them the Commissioners are relieved of the annoyance and importunities of applicants and their freinds for positions and promotions, inasmuch as the rules provide for the manner in which appointments and promotions only can be made.

Provision is made that the selection and appointment of new teachers will be made on the basis of merit alone from lists prepared by the Superintendents from graduates of our Colleges and High Schools, the State Normal School, and those who pass examinations with an average equivalent to that of the graduates.

Promotions are provided for by examinations, so that all teachers in Primary and Grammar Schools have the same opportunity for advancement, the selections also to be made on the basis of merit alone in the best interest of the schools and teachers. As the Committee, in closing its report, aptly said: "The rules not only place the schools beyond the blighting reach of spoilsmen, but also encourage and improve the teaching force itself, which really determines the character of the schools.

"First. They are perfectly impartial, giving every applicant an equal chance for appointment, and every primary and grammar school teacher in the employ of the Board an equal chance for promotion.

"Second. They are just to the school system and to the people, as it selects none for appointment or promotion but qualified persons, and stimulates and encourages the teachers to faithful and efficient service, and to study their profession so as to fit themselves for advancement."

---

In compliance with the terms of the ordinance approved September 21, 1896, by which the Board of Commissioners of Public Schools was anthorized and directed to introduce physical training as a regular course of study, the Committee appointed to consider the subject reported that physical instruction was given in the schools of all the large cities of this country and elsewhere with most favorable results, and recommended that it be gradually introduced into our schools, which recommendation was unanimously adopted, and an examination for a director and assistants ordered to be held on the 7th day of January, 1898.

Another matter which has been under the consideration of a number of Commissioners, although the Board has not taken any action, is the addition of Kindergarten work, which is now a part of the school system of many of the principal cities of the country. Those who have interested themselves in the work visited a number of private Kindergartens, and speak in glowing terms of the good work which is accomplished and believe that they would be valuable adjuncts to our schools.

The question of non-resident pupils continues to be a source of much embarrassment, as, by ordinance, we are required to charge the amounts prescribed therein to all non-residents, as follows: Baltimore City College, $50; Polytechnic Institutes, $50; Female High Schools, $32; Grammar Schools, $16; Primary Schools, $12.

Many protests are made by persons who own property in the city and pay taxes on the same, but who live in the county. They claim that as they are paying taxes for the support of the public

schools, their children should be admitted to the schools free of any charge. Others residing in the counties, who are unable to pay the tuition, place their children with relatives or others, who support them. In both cases they object to pay the charges, and it is by adhering rigidly to the conditions of the ordinance that payment in all cases has been secured. Some modification of the ordinance, we think, ought to be made, and trust the matter will have your early consideration.

The following classified statistics show the number of schools of the various grades to be 192; the number of teachers, 1,836; the number of pupils, 67,192, and the average attendance in the various grades, 54,274. The number of special teachers included in the above is 49, of whom 18 are teachers of drawing, 29 teachers of sewing, and 2 superintendents of music. Four new schools were established during the year, with 18 teachers, and 738 pupils were enrolled at the end of the year, with an average attendance of 729.

The number of non-resident pupils now in the schools is 215. The total number in the schools during some portion of the year, 286, being 7 less than in 1896; and the amount received from said non-residents for books and tuition was as follows:

| | |
|---|---|
| From Polytechnic Institute | $697 95 |
| " Baltimore City College | 870 82 |
| " Female High Schools | 101 34 |
| " Male Grammar Schools | 866 35 |
| " Female Grammar Schools | 530 80 |
| " Male Primary Schools | 122 00 |
| " Female Primary Schools | 56 25 |
| " English German Schools | 61 25 |
| " Colored Schools | 20 00 |
| " Annex Schools | 462 67 |
| | $3,789 43 |
| More than receipts in 1896 | $41 48 |

# SCHOOL STATISTICS.

## BALTIMORE CITY COLLEGE.

| | |
|---|---|
| Number of schools | 1 |
| Number of teachers | 16 |
| Number of pupils on roll December 31, 1897 | 670 |
| Average number on roll during the year | 654 |
| Average attendance | 617 |
| Percentage of attendance | 94 |

## FEMALE HIGH SCHOOLS.

| | |
|---|---|
| Number of schools | 2 |
| Number of teachers | 29 |
| Number of pupils on roll December 31, 1897 | 1,093 |
| Average number on roll during the year | 1,035 |
| Average attendance | 951 |
| Percentage of attendance | 92 |

## COLORED HIGH SCHOOL.

| | |
|---|---|
| Number of schools | 1 |
| Number of male teachers | 1 |
| Number of female teachers | 5 |
| Number of pupils on roll December 31, 1897 | 161 |
| Average number on roll during the year | 142 |
| Average attendance | 132 |
| Percentage of attendance | 93 |

## POLYTECHNIC INSTITUTE.

| | |
|---|---|
| Number of schools | 1 |
| Number of teachers | 20 |
| Number of pupils on roll December 31, 1897 | 554 |
| Average number on roll during the year | 503 |
| Average attendance | 469 |
| Percentage of attendance | 93 |

## GRAMMAR SCHOOLS.

| | |
|---|---|
| Number of schools | 41 |
| Number of male teachers | 37 |
| Number of female teachers | 383 |
| Number of pupils on roll December 31, 1897 | 15,146 |
| Average number on roll during the year | 14,721 |
| Average attendance | 12,884 |
| Percentage of attendance | 88 |

PRIMARY SCHOOLS.

| | |
|---|---|
| Number of schools | 76 |
| Number of female teachers | 612 |
| Number of pupils on roll December 31, 1897 | 22,089 |
| Average number on roll during the year | 21,989 |
| Average attendance | 18,388 |
| Percentage of attendance | 84 |

ENGLISH-GERMAN SCHOOLS.

| | |
|---|---|
| Number of schools | 7 |
| Number of male teachers | 22 |
| Number of female teachers | 162 |
| Number of pupils on roll December 31, 1897 | 7,143 |
| Average number on roll during the year | 6,937 |
| Average attendance | 6,250 |
| Percentage of attendance | 90 |

ANNEX SCHOOLS.

| | |
|---|---|
| Number of schools | 25 |
| Number of male teachers | 16 |
| Number of female teachers | 213 |
| Number of pupils on roll December 31, 1897 | 8,873 |
| Average number on roll during the year | 8,434 |
| Average attendance | 6,988 |
| Percentage of attendance | 83 |

COLORED MANUAL TRAINING SCHOOL.

| | |
|---|---|
| Number of schools | 1 |
| Number of male teachers | 7 |
| Number of pupils on roll December 31, 1897 | 120 |
| Average number on roll during the year | 96 |
| Average attendance | 86 |
| Percentage of attendance | 90 |

COLORED SCHOOLS (GRAMMAR AND PRIMARY).

| | |
|---|---|
| Number of schools | 22 |
| Number of male teachers | 30 |
| Number of female teachers | 192 |
| Number of pupils on roll December 31, 1897 | 8,753 |
| Average number on roll during the year | 8,057 |
| Average attendance | 6,444 |
| Percentage of attendance | 80 |

NIGHT SCHOOLS.

| | |
|---|---|
| Number of schools | 15 |
| Number of male teachers | 51 |
| Number of female teachers | 21 |
| Number of pupils on roll December 31, 1897 | 2,590 |
| Average number on roll during the year | 2,023 |
| Average attendance | 1,065 |
| Percentage of attendance | 52 |

The average salary of the teachers was $568.70, the per capita cost per pupil was $20.09, and in the several grades was as follows:

| | |
|---|---|
| Baltimore City College | $59 23 |
| Female High Schools | 36 14 |
| Male Grammar Schools | 22 47 |
| Female Grammar Schools | 19 04 |
| English-German Schools | 17 61 |
| Male Primary Schools | 17 19 |
| Female Primary Schools | 16 98 |
| Polytechnic Institute | 60 68 |
| Colored Polytechnic Institute | 71 09 |
| Colored High School | 60 68 |
| Colored Grammar and Primary Schools | 15 75 |
| Annex Schools | 18 36 |
| Average for all | 20 09 |

Respectfully submitted,

HENRY F. NEW, *President.*

# IN MEMORIAM.

It is again our sad duty to announce the death of several experienced and successful teachers, some of whom have been connected with our schools for many years. They conscientiously and faithfully performed their work and won the respect and affection of their pupils.

We appreciated their devotion to duty and will always remember them as useful co-workers in the cause of public education.

JAMES E. GORE, Principal of Male Grammar No. 10. Died February 26, 1897.

KATE L. FLYNN, Assistant in Colored High School. Died June 13, 1897.

MARY HANNA, Principal Female Primary No. 16. Died June 20, 1897.

PROF. CHAS. C. WIGHT, Professor of English Literature and History in Baltimore City College. Died June 25, 1897.

ADA S. TRUSTY, Assistant in Male Colored No. 9. Died July 15, 1897.

CHAS. F. HESZLER, Assistant in English-German No. 1. Died July 30, 1897.

LULU M. FULTON, Assistant in Annex No. 6. Died October 2, 1897.

MADGE N. LYON, Assistant in Male Primary No. 30. Died September 23, 1897.

PROF. ALBERT T. KING, Principal of English-German No. 1. Died December 16, 1897.

ADA F. EDEN, Assistant in Male Primary No. 26. Died December 17, 1897.

# ANNUAL REPORT

— OF THE —

# COMMITTEE ON ACCOUNTS

## FOR THE YEAR ENDING DECEMBER 31, 1897.

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BALTIMORE, January 14, 1898.

*To the Board of Commissioners of Public Schools:*

GENTLEMEN: As prescribed by the rules of the Board, one of the duties of the Committee on Accounts is to audit all bills against the Board and certify to their correctness.

We respectfully report that in the performance of that duty we have audited during the past year bills amounting to $214,543.91, in which amount are included bills for books for white and colored schools, amounting to $56,031.30, which were paid out of amount appropriated by the State, as the "Free Book Fund."

The amount first named above, together with the amount $1,092,762.06 paid on account of salaries, gives the total of the current expenses of the schools for the year, $1,307,305.97.

Another duty is to examine the accounts of the Secretary of the Board. This duty has been performed, and we find that he has received, as fees from non-resident pupils, $3,789.43; from intestates' estates, 55 cents; from T. Sewell Plummer, exct. $89.56; from teachers furnishing no substitutes and other mis-

cellaneous sources, $180.92, making a total of $4,060.46, all of which he has paid over to the City Register, as shown by the receipts of that officer.

In compliance with the custom of several years past this committee has examined and passed upon the estimated amounts required for expenditure for school purposes during the year 1898, and as the result of such examination we submit the following:

Estimate for the expenses for the year of 1898.

| | | |
|---|---|---|
| For salaries, city | $1,000,000 00 | |
| For expenses, city | 178,800 00 | |
| For Baltimore Polytechnic Institute | 38,000 00 | |
| For Colored Polytechnic Institute | 11,837 00 | |
| For night schools | 15,000 00 | |
| For free text-books, white | 10,000 00 | |
| | | $1,253,637 00 |
| For salaries, Annex | 146,000 00 | |
| For expenses, Annex | 29,700 00 | |
| | | 175,700 00 |
| | | $1,429,337 00 |

The expenditures for school purposes must, of course, vary largely from year to year, and after examining the expenditures of past years, noting the usual annual increase and investigating the causes which have produced such increase, not only the increase in the number of teachers and pupils, increase in rents, increase for books and stationery, for new furniture, etc., etc., we have fixed our estimates at the above amounts, which we think will be required for the different accounts.

The item of $10,000 for free text-books, white, we think will be required this year to enable the different schools to be supplied with the increased number of text-books and supplementary reading, as authorized by the Text-book Committee for use in the schools, the usual appropriation by the State being found insufficient for that purpose.

We therefore find it necessary to ask for this appropriation, as it is the mature judgment of the committee that these books be placed in the hands of the pupils at once.

In conclusion, we will say our estimates have been carefully made, and we hope that the Committee on Ways and Means will see their way clear to grant our estimates. Of course, if our expenses for the year fall below what we have asked for, then the surplus will be returned to the city treasury, as is proven by the last three or four reports of the Board.

Respectfully submitted.

CHARLES H. BOND,

*Chairman of Committee on Accounts.*

# Secretary's Statement

—— OF ——

## ESTIMATES, EXPENDITURES, ETC., ON ACCOUNT OF PUBLIC SCHOOLS IN 1897.

The estimates made by the Board for the current expenditures for school purposes for the year 1897 were as follows:

| | |
|---|---|
| For salaries, not including the Polytechnic Institute, nor the Colored Manual Training School, nor Night Schools, in first twenty wards | $940,000 00 |
| For items other than salaries in first twenty wards, excluding as above | 146,610 00 |
| For Polytechnic Institute | 33,688 00 |
| For the Colored Manual Training School | 8,525 00 |
| For Night Schools | 14,000 00 |
| For salaries in the Annex Schools | 135,000 00 |
| For other items in the Annex Schools | 32,065 00 |
| Total | $1,309,888 00 |

In making the appropriation the Mayor and City Council reduced the above amount to the extent of $37,890.

The items from which these reductions were made were the following:

| | |
|---|---|
| From city salaries | $10,000 00 |
| From city expenses, including rents, books, heating, furniture, fuel, repairs and incidentals, first twenty wards. | 12,000 00 |
| From Annex salaries | 5,000 00 |
| From Annex expenses | 6,365 00 |
| From Night Schools | 4,000 00 |
| From Colored Manual Training School | 525 00 |
| Total | $37,890 00 |

THE FOLLOWING STATEMENTS SHOW THE AMOUNTS APPROPRIATED AND EXPENDED FOR THE ITEMS NAMED:

*Salaries—First Twenty Wards:*

| | |
|---|---|
| Appropriated | $930,000 00 |
| Expended | 922,746 41 |
| Unexpended | $7,253 59 |

*Other than Salaries—First Twenty Wards:*

| | |
|---|---|
| Appropriated | $134,610 00 |
| Expended | 122,996 70 |
| Unexpended | $11,613 30 |

*Baltimore Polytechnic Institute:*

| | |
|---|---|
| Appropriated | $33,688 00 |
| Expended | 33,087 60 |
| Unexpended | $600 40 |

*Colored Manual Training School:*

| | |
|---|---|
| Appropriated | $8,000 00 |
| Expended | 8,077 29 |
| Overdrawn | $77 29 |

*Night Schools—First Twenty Wards:*

| | |
|---|---|
| Appropriated | $10,000 00 |
| Expended | 9,579 77 |
| Unexpended | $420 23 |

*Annex Schools—Salaries Twenty-first and Twenty-second Wards:*

| | |
|---|---|
| Appropriated | $130,000 00 |
| Expended | 129,893 50 |
| Unexpended | $106 50 |

*Annex Schools—Other than Salaries:*

| | |
|---|---|
| Appropriated | $25,700 00 |
| Expended | 24,893 40 |
| Unexpended | $806 60 |

*Total in First Twenty Wards:*

| | |
|---|---|
| Total appropriations | $1,116,298 00 |
| Total expenditures | 1,096,487 77 |
| Unexpended | $19,810 23 |

*Total in Annex Schools:*

| | |
|---|---|
| Total appropriations | $155,700 00 |
| Total expenditures | 154,786 90 |
| Unexpended | $913 10 |

*Total for all the Schools:*

| | |
|---|---|
| Amount appropriated | $1,271,998 00 |
| Amount expended | 1,251,274 67 |
| Unexpended | $20,723 33 |

The above is exclusive of the amounts received from the State as the city's apportionment of the $150,000 appropriated as the Free Book Fund, to be expended *for books only.*

| | |
|---|---|
| Balance on hand for White Schools January 1, 1897 | $7,337 61 |
| The amount received on account of White Schools for 1897–8 was | 45,158 87 |
| Total | $52,496 48 |
| The amount expended on account of White Schools was | 50,182 11 |
| Unexpended as of January 1, 1898 | $2,314 37 |
| Balance on hand for Colored Schools January 1, 1897 | $4,012 25 |
| The amount received on account of Colored Schools for 1897–8 was | 7,568 74 |
| Total | $11,580 99 |
| The amount expended on account of Colored Schools was | 5,849 19 |
| Unexpended as of January 1, 1898 | $5,731 80 |

The above apportionment made by the State (with the balances as of January 1, 1897,) is intended to cover the twelve months commencing August 1, 1897, and ending July 31, 1898.

## EXPENDED BY THE INSPECTOR OF BUILDINGS ON ACCOUNT OF NEW BUILDINGS AND IMPROVEMENTS AND REPAIRS OF OLD BUILDINGS.

*In the First Twenty Wards:*

| | |
|---|---|
| For general repairs | $27,708 06 |
| On Baltimore City College, new | 7,065 50 |
| On Primary No. 4, new | 3,881 55 |
| On Colored No. 9, new | 26,576 83 |
| On Colored No. 8, new | 830 00 |
| On Colored Grammar No. 4, new | 800 00 |
| On Grammar No. 7, new | 25,811 19 |
| | $92,673 13 |

*In Twenty-first and Twenty-second Wards:*

| | | |
|---|---|---|
| For general repairs | $2,800 00 | |
| On Female Annex No. 3, new | 44,701 17 | |
| On Female Annex No. 18, new | 37,038 28 | |
| | | 84,539 45 |
| By the Inspector | | $177,212 58 |
| By the Board | | 1,307,305 97 |
| By the Board and Inspector | | $1,484,518 55 |

RECEIPTS FOR THE CURRENT EXPENSES OF THE BOARD.

| | |
|---|---|
| From the City Collector, taxes | $973,655 28 |
| From the State Treasurer, taxes | 214,618 29 |
| From non-resident pupils | 3,789 43 |
| From T. Sewell Plummer | 89 56 |
| | $1,192,152 56 |

RECEIVED FROM INTESTATES' ESTATES.

| | |
|---|---|
| From Coroner C. L. Buddenbohn, of Central District, on account coroner's inquest | $0 55 |

NON-RESIDENT PUPILS.

The number of non-resident pupils now in the schools is 215. The total number in the schools during some portion of the year, 286, being 7 less than in 1896.

| | | |
|---|---|---|
| The amount received from non-residents | | $3,789 43 |
| From Polytechnic Institute | $697 95 | |
| " Baltimore City College | 870 82 | |
| " Female High Schools | 101 34 | |
| " Male Grammar Schools | 866 35 | |
| " Female Grammar Schools | 530 80 | |
| " Male Primary Schools | 122 00 | |
| " Female Primary Schools | 56 25 | |
| " English-German Schools | 61 25 | |
| " Colored Schools | 20 00 | |
| " Annex Schools | 462 67 | |
| | | $3,789 43 |
| More than receipts in 1896 | | $41 48 |

The fees for non-residents are as follows:

| | |
|---|---|
| In Baltimore City College | $50 per annum, payable quarterly. |
| In Polytechnic Institute | 50 " " " " |
| In Female High Schools | 32 " " " " |
| In all Grammar Grades | 16 " " " " |
| In all Primary Grades | 12 " " " " |

The fees are payable in advance. Quarters commence: First quarter, September 1; second quarter, November 21; third quarter, February 11; fourth quarter, April 26.

The average salary of teachers of 1897 was $568.70.

PER CAPITA TAX.

The cost per pupil, including all the day schools under the control of this Board, based

1st. On the December, 1897, enrollment and the expenditure for Books and Stationery.

2d. On the December, 1897, enrollment and the total current expenses paid by the School Board, including Books and Stationery, was as follows:

| | *For Books.* | *For Stationery.* | *For Current Expenses.* |
|---|---|---|---|
| In Baltimore City College | $2 99 | $ 49 | $59 23 |
| In Female High Schools | 3 32 | 24 | 36 14 |
| In Male Grammar Schools | 1 24 | 29 | 22 47 |
| In Female Grammar Schools | 1 21 | 20 | 19 04 |
| In English-German Schools | 70 | 20 | 17 61 |
| In Male Primary Schools | 56 | 16 | 17 19 |
| In Female Primary Schools | 54 | 13 | 16 98 |
| In Polytechnic Institute | 96 | 1 74 | 60 68 |
| In Colored Manual Training | 3 78 | 21 | 71 09 |
| In Colored High School | 3 21 | 60 | 60 68 |
| In Colored Grammar and Primary Schools | 56 | 13 | 15 75 |
| In Annex Schools | 90 | 20 | 18 36 |
| Average for all | 86 | 20 | 20 09 |

STATE TAX.

| | |
|---|---|
| Amount of school tax paid by the city to the State | $323,439 96 |
| Amount of school tax received by the city from the State | 214,618 29 |
| Excess to the State | $108,821 67 |

SCHOOL BUILDINGS.

| | |
|---|---|
| Number of school buildings owned by the city | 97 |
| Number rented for school purposes | 34 |
| Total number used for school purposes | 131 |

The following tables show:

Table showing amounts appropriated, expended, balances, etc.

Table A—Monthly expenditure itemized.

Table showing condition of Free Text Book Fund as of January 1, 1898.

Table B—Itemized expenditures for each school.

Table C—Location of schools, size of lots, ground rents, amount paid on lots, size of buildings, cost or estimated value, and date of completion.

Table D—Showing location of rented buildings, etc.

CHARLES F. BENDER, *Secretary.*

TABLE SHOWING AMOUNTS APPROPRIATED, EXPENDED, BALANCES, ETC.

| ITEMS. | APPROPRIATED. | EXPENDED. | | TOTALS. | UNEXPENDED. | OVERDRAWN. |
|---|---|---|---|---|---|---|
| | | White Schools. | Colored Schools. | | | |
| Salaries, city | $930,000 00 | $797,745 91 | $125,000 50 | $922,746 41 | $7,253 59 | |
| Expenses, city | 134,610 00 | 105,721 99 | 17,274 71 | 122,996 70 | 11,613 30 | |
| Night Schools | 10,000 00 | 9,579 77 | | 9,579 77 | 420 23 | |
| Baltimore Polytechnic Institute | 33,688 00 | 33,087 60 | | 33,087 60 | 600 40 | |
| Colored Manual Training School | 8,000 00 | | 8,077 29 | 8,077 29 | | $77 29 |
| Totals, city | $1,116,298 00 | $946,135 27 | $150,352 50 | $1,096,487 77 | $19,887 52 | $77 29 |
| Salaries, Annex | $130,000 00 | $124,426 75 | $5,466 75 | $129,893 50 | $106 50 | |
| Expenses, Annex | 25,700 00 | 23,378 00 | 1,515 40 | 24,893 40 | 806 60 | |
| Totals, Annex | $155,700 00 | $147,804 75 | $6,982 15 | $154,786 90 | $913 10 | |
| Grand totals | $1,271,998 00 | $1,093,940 02 | $157,334 65 | $1,251,274 67 | $20,800 62 | $77 29 |

TABLE A.

SHOWING AMOUNTS EXPENDED EACH MONTH DURING THE YEAR ENDING DECEMBER 31, 1897.

| MON. | City Salaries. | City Rents. | City Stationery. | City Heating Apparatus and Repairs. | City Furniture | City Fuel. | City Repairs and Cleaning. | City Incidentals and Printing. | Balto. Polytechnic Institute. | Colored Polytechnic Institute. | Annex Schools, Salaries. | Annex Schools, Expenses. | Night Schools. | FREE TEXT-BOOK FUND. White Schools. | FREE TEXT-BOOK FUND. Colored Schools. | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan.. | $77,343 85 | $1,447 25 | ..... | $199 16 | $5 25 | $8 46 | $43 42 | $666 45 | $2,522 22 | $553 25 | $10,688 75 | $615 97 | $2,151 39 | ..... | ..... | $96,245 42 |
| Feb... | 77,204 20 | 973 50 | $862 20 | 201 36 | 14 50 | 657 18 | 238 01 | 282 67 | 2,498 23 | 691 93 | 10,704 25 | 425 62 | 1,848 24 | $791 97 | $128 04 | 97,521 90 |
| Mar.. | 77,252 55 | 1,027 75 | 915 18 | 5 50 | 9 60 | 953 80 | 304 14 | 479 56 | 2,689 36 | 709 64 | 10,656 75 | 745 09 | 2,031 00 | 3,663 23 | 515 17 | 101,958 32 |
| Apr... | 77,083 63 | 1,381 25 | 769 25 | 82 67 | 833 27 | 1,868 38 | 495 14 | 1,209 44 | 2,331 72 | 692 40 | 10,656 75 | 1,118 22 | 1,256 65 | 1,800 68 | 305 62 | 101,885 07 |
| May . | 76,542 70 | 762 50 | 475 45 | ..... | 300 77 | 656 15 | 423 25 | 1,033 92 | 2,421 87 | 684 31 | 10,582 50 | 160 00 | ..... | 263 99 | 50 22 | 94,357 63 |
| June . | 151,904 63 | 1,138 75 | 437 97 | 13 75 | 2,648 40 | 74 03 | 158 69 | 1,164 12 | 4,038 91 | 1,150 75 | 20,970 70 | 577 49 | 17 00 | 638 80 | ..... | 184,916 99 |
| July .. | ..... | 1,931 25 | 81 22 | ..... | 555 98 | 83 50 | 803 61 | 1,628 07 | 524 92 | 290 46 | ..... | 599 23 | ..... | 25 05 | ..... | 6,540 29 |
| Aug .. | 75,464 60 | 673 50 | ..... | 3,421 48 | ..... | 4,043 20 | 3,319 72 | 5,838 31 | 2,055 41 | 490 00 | 10,381 20 | 1,201 62 | ..... | ..... | ..... | 106,889 01 |
| Sept.. | 75,465 90 | 1,438 75 | ..... | 3,317 81 | 678 28 | 23,076 25 | 6,759 32 | 7,902 21 | 2,115 82 | 520 00 | 10,802 50 | 10,719 51 | ..... | 1,650 16 | ..... | 144,446 51 |
| Oct... | 78,114 70 | 1,256 25 | 2,372 91 | 224 13 | 1,176 18 | 1,115 80 | 1,070 43 | 3,538 36 | 2,686 24 | 765 88 | 11,381 60 | 4,511 46 | ..... | 1 88 | 83 | 108,216 65 |
| Nov .. | 78,328 20 | 897 50 | 2,622 10 | 375 90 | 2,520 28 | 150 64 | 636 64 | 2,173 65 | 3,885 97 | 951 37 | 11,527 95 | 2,929 47 | 1,143 50 | 37,560 64 | 4,551 69 | 150,255 50 |
| Dec .. | 78,041 45 | 953 75 | 1,696 12 | 2,385 90 | 1,438 67 | 374 60 | 2,498 26 | 2,744 08 | 5,316 93 | 577 30 | 11,540 55 | 1,289 72 | 1,131 99 | 3,785 71 | 297 62 | 114,072 65 |
| TT's. | $922,746 41 | $13,882 00 | $10,232 40 | $10,227 66 | $10,181 18 | $33,061 99 | $16,750 63 | $28,660 84 | *$33,087 60 | *$8,077 29 | $129,893 50 | $24,893 40 | *$9,579 77 | $50,182 11 | $5849 19 | $1,307,305 97 |

*Includes salaries and expenses.

TABLE SHOWING CONDITION OF FREE TEXT BOOK FUND AS OF JANUARY 1, 1898.

| | White Schools. | Colored Schools. | Total. |
|---|---|---|---|
| Balance on hand January 1, 1897 | $7,337 61 | $4,012 25 | $11,349 86 |
| Amount received during the year of 1897 from the State as the city's apportionment of the State's appropriation of $150,000 for Free Book Fund | 45,158 87 | 7,568 74 | 52,727 61 |
| Total | $52,496 48 | $11,580 99 | $64,077 47 |
| Amount expended during the year 1897 | 50,182 11 | 5,849 19 | 56,031 30 |
| Unexpended, as of January 1, 1898 | $2,314 37 | $5,731 80 | $8,046 17 |

TABLE B—Showing the Itemized Expenditures for Each School.

| Schools. | Salaries. | Rents. | Books and Stationery. | Heating Apparatus and Repairs. | Furniture. | Fuel. | Repairs and Cleaning | Incidentals, Printing, Etc. | Free Books. | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|
| General expense (city) | $37,641 50 | $926 50 | $85 55 | ..... | $231 57 | $16 00 | $314 37 | $7,781 19 | ..... | $46,996 71 |
| Public School Library | 900 00 | 300 00 | 14 62 | $17 77 | 52 65 | 39 63 | 75 83 | 268 32 | ..... | 1,668 82 |
| Baltimore City College | 35,187 65 | ..... | 327 40 | 97 50 | 21 06 | 687 25 | 193 28 | 1,164 48 | $2,006 02 | 39,684 64 |
| East. Female High School | 14,328 00 | ..... | 149 43 | 74 45 | 62 65 | 428 52 | 262 21 | 201 72 | 1,897 42 | 17,404 40 |
| West. Female High School | 17,148 00 | ..... | 109 28 | ..... | 2,466 75 | 309 75 | 176 97 | 161 55 | 1,728 16 | 22,100 46 |
| Balto. Polytechnic Inst | 25,241 00 | ..... | 965 60 | ..... | 184 18 | 492 79 | 232 48 | 5,971 55 | 529 57 | 33,617 17 |
| Col'd Polytechnic Insti'e | 5,917 50 | ..... | 24 96 | ..... | ..... | 117 25 | ..... | 2,017 58 | 453 21 | 8,530 50 |
| Male Grammar No. 1 | $5,838 00 | ..... | $136 02 | $124 60 | $56 82 | $445 50 | $220 32 | $130 01 | $421 78 | $7,373 05 |
| " " " 2 | 8,873 50 | $300 00 | 146 11 | 102 60 | 93 55 | 377 27 | 250 77 | 362 85 | 599 58 | 11,106 23 |
| " " " 3 | 4,058 00 | ..... | 23 91 | 132 33 | 19 44 | 132 73 | 35 19 | 118 35 | 185 93 | 4,705 88 |
| " " " 4 | 6,734 00 | 264 00 | 137 50 | 34 72 | 18 22 | 161 60 | 144 69 | 177 65 | 386 83 | 8,059 21 |
| " " " 5 | 5,556 80 | ..... | 55 60 | 46 95 | 14 50 | 117 64 | 69 06 | 174 31 | 359 61 | 6,394 47 |
| " " " 6 | 7,320 00 | ..... | 69 47 | 64 15 | 17 14 | 306 26 | 128 52 | 224 65 | 214 38 | 8,344 61 |
| " " " 7 | 7,086 95 | 300 00 | 126 52 | 110 01 | 18 35 | 237 36 | 126 31 | 190 22 | 569 88 | 8,765 60 |
| " " " 8 | 7,464 00 | 450 00 | 103 69 | 81 27 | 101 52 | 312 23 | 129 96 | 236 94 | 585 86 | 9,465 47 |
| " " & Prim. No. 9 | 3,806 25 | 690 00 | 32 03 | ..... | 47 61 | 117 00 | 116 59 | 222 89 | 143 69 | 5,176 06 |
| " " No. 10 | 7,638 95 | 205 00 | 149 71 | 60 10 | 35 00 | 179 19 | 67 94 | 159 84 | 560 81 | 9,056 54 |
| " " " 11 | 6,177 60 | ..... | 93 25 | 203 02 | 66 11 | 251 64 | 166 53 | 128 25 | 459 72 | 7,546 12 |
| " " " 12 | 6,801 75 | ..... | 74 34 | 8 60 | 217 11 | 43 96 | 114 17 | 173 72 | 464 20 | 7,897 85 |
| " " " 13 | 3,848 00 | ..... | 43 90 | 27 42 | ..... | 133 76 | 95 59 | 59 36 | 259 00 | 4,467 03 |
| " " " 15 | 8,230 45 | ..... | 212 81 | 178 02 | 56 00 | 328 40 | 208 91 | 82 69 | 568 03 | 9,865 31 |
| " " " 16 | 7,022 00 | ..... | 73 32 | 366 74 | 4 86 | 244 61 | 62 17 | 136 46 | 402 68 | 8,312 84 |
| " " " 17 | 6,638 25 | ..... | 49 55 | 72 63 | 55 90 | 227 75 | 137 29 | 149 82 | 536 66 | 7,867 85 |
| " " " 18 | 5,846 45 | ..... | 95 08 | 65 50 | 8 75 | 379 28 | 10 73 | 163 68 | 354 84 | 6,924 31 |
| " " " 19 | 7,560 00 | ..... | 133 52 | 116 77 | 51 94 | 224 07 | 106 66 | 79 62 | 495 79 | 8,768 35 |
| " " " 20 | 10,200 75 | 225 00 | 223 08 | 121 90 | 22 16 | 383 38 | 225 00 | 85 20 | 677 64 | 12,164 12 |
| " " " 21 | 6,709 00 | ..... | 106 61 | 32 67 | 71 58 | 169 13 | 153 43 | 89 86 | 587 89 | 7,920 19 |
| M. & F. Gram. No. 22 | 4,985 25 | ..... | 30 57 | 155 10 | 7 05 | 361 30 | 97 93 | 86 63 | 318 46 | 6,042 29 |
| Totals, Male Grammar | $138,395 95 | $2,434 00 | $2,116 59 | $2,105 10 | $983 61 | $5,134 07 | $2,667 76 | $3,233 04 | $9,153 26 | $166,223 38 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Female Grammar No. 1.... | $5,326 00 | ..... | $29 91 | $613 50 | $32 80 | $503 21 | $91 38 | $112 92 | $404 92 | $7,114 64 |
| " " " 2.... | 7,003 80 | $180 00 | 119 07 | 104 68 | 121 67 | 342 77 | 248 02 | 353 17 | 598 37 | 9,071 60 |
| " " " 3.... | 3,265 00 | ..... | 21 65 | 146 62 | 17 50 | 124 26 | 15 36 | 100 88 | 226 54 | 3,917 81 |
| " " " 4.... | 5,192 00 | ..... | 51 82 | 34 23 | 42 75 | 142 60 | 67 24 | 174 99 | 395 80 | 6,101 43 |
| " " " 5.... | 4,612 60 | ..... | 81 75 | 33 95 | 24 30 | 105 15 | 77 33 | 123 83 | 315 77 | 5,374 68 |
| " " " 6.... | 6,599 00 | ..... | 64 42 | 64 15 | 41 30 | 361 87 | 81 08 | 186 62 | 653 21 | 8,051 65 |
| " " " 7.... | 6,733 80 | 150 00 | 100 10 | 110 01 | 67 36 | 280 26 | 92 01 | 192 07 | 486 32 | 8,211 93 |
| " " " 8.... | 6,836 90 | ..... | 66 61 | 81 28 | 68 90 | 267 24 | 136 60 | 230 01 | 597 85 | 8,285 39 |
| " Gram. & Prim. No. 9. | 3,169 60 | 450 00 | 44 83 | 12 15 | ..... | 107 30 | 98 15 | 98 12 | 135 17 | 4,115 32 |
| " Grammar No. 10.... | 7,106 50 | 275 00 | 101 76 | 54 00 | 17 10 | 167 55 | 51 24 | 130 96 | 515 71 | 8,419 82 |
| " " " 11.... | 5,956 05 | ..... | 104 93 | 199 03 | 25 92 | 251 65 | 184 81 | 166 90 | 494 97 | 7,384 26 |
| " " " 12.... | 5,532 45 | ..... | 55 30 | 7 85 | 30 08 | 435 46 | 125 63 | 141 35 | 289 25 | 6,617 37 |
| " " " 13.... | 5,141 95 | ..... | 57 98 | 27 43 | 22 61 | 121 26 | 111 11 | 90 32 | 370 92 | 5,943 58 |
| " " " 15.... | 8,443 75 | ..... | 254 62 | 267 75 | 133 47 | 375 75 | 119 62 | 154 49 | 665 15 | 10,414 60 |
| " " " 16.... | 6,208 40 | ..... | 65 21 | 366 75 | 71 92 | 225 86 | 35 91 | 160 89 | 359 68 | 7,494 62 |
| " " " 17.... | 5,142 00 | ..... | 25 93 | 72 63 | 70 06 | 250 25 | 152 46 | 120 93 | 402 82 | 6,237 08 |
| " " " 18.... | 5,922 00 | ..... | 49 82 | 63 50 | 14 83 | 379 27 | 64 33 | 181 75 | 480 32 | 7,155 82 |
| " " " 19.... | 6,893 60 | ..... | 52 58 | 126 82 | 57 10 | 202 80 | 34 18 | 129 05 | 672 31 | 8,168 44 |
| " " " 20.... | 10,401 00 | 375 00 | 188 97 | 5 50 | 10 83 | 383 39 | 216 36 | 129 06 | 810 30 | 12,520 41 |
| " " " 21... | 5,885 10 | ..... | 43 37 | 26 43 | 85 23 | 168 90 | 127 34 | 144 43 | 473 58 | 6,954 38 |
| Totals, Fem. Grammar.. | $121,371 55 | $1,430 00 | $1,580 63 | $2,418 26 | $955 73 | $5,196 80 | $2,130 16 | $3,122 74 | $9,348 96 | $147,554 83 |
| English-German No. 1.... | $9,370 50 | ..... | $143 08 | $51 10 | $31 31 | $232 00 | $240 97 | $134 66 | $417 98 | $10,621 60 |
| " " 2.... | 16,413 80 | ..... | 361 70 | 135 15 | 90 36 | 524 92 | 133 82 | 624 46 | 722 44 | 19,006 65 |
| " " 3.... | 22,642 85 | $900 00 | 245 98 | 60 68 | 36 57 | 650 66 | 349 56 | 302 17 | 1,295 71 | 26,484 18 |
| " " 4.... | 19,568 75 | ..... | 208 43 | 174 80 | 26 54 | 502 25 | 399 53 | 214 12 | 1,370 75 | 22,465 17 |
| " " 5.... | 16,515 35 | ..... | 201 22 | 115 00 | 10 23 | 762 25 | 323 85 | 148 29 | 514 62 | 18,590 81 |
| " " 6.... | 15,901 85 | 450 00 | 156 48 | 36 53 | 44 52 | 1,057 65 | 385 16 | 295 42 | 343 67 | 18,671 28 |
| " " 7.... | 7,296 75 | 1,087 50 | 93 86 | 79 60 | 176 58 | 188 89 | 381 19 | 298 63 | 325 84 | 9,928 84 |
| Totals, English-German. | $107,709 85 | $2,437 50 | $1,410 75 | $652 86 | $416 11 | $3,918 62 | $2,214 08 | $2,017 75 | $4,991 01 | $125,768 53 |

TABLE B—Continued.

| Schools. | Salaries. | Rents. | Books and Stationery. | Heating Apparatus and Repairs. | Furniture. | Fuel. | Repairs and Cleaning | Incidentals, Printing, Etc. | Free Books. | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|
| Male Primary No. 1 | $3,905 13 | | $36 88 | $14 15 | $137 73 | | $47 36 | $171 26 | $159 97 | $4,472 78 |
| " " " 2 | 3,239 00 | | 34 21 | 20 00 | 28 45 | $106 65 | 88 22 | 56 21 | 150 21 | 3,722 95 |
| " " " 3 | 5,822 10 | $600 00 | 48 73 | 75 75 | 21 63 | 98 01 | 62 46 | 42 80 | 223 21 | 6,994 69 |
| " " " 4 | 4,005 20 | | 24 25 | | 41 20 | 286 80 | 21 54 | 95 09 | 137 87 | 4,611 95 |
| " " " 5 | 6,257 00 | | 42 28 | 9 00 | 50 00 | 275 53 | 124 41 | 100 19 | 258 18 | 7,116 59 |
| " " " 6 | 5,573 05 | 187 50 | 81 62 | 56 45 | 91 56 | 151 02 | 118 57 | 165 85 | 163 97 | 6,589 59 |
| " " " 7 | 2,863 70 | | 33 32 | 85 90 | 25 24 | 109 30 | 95 42 | 17 52 | 119 26 | 3,349 66 |
| " " " 8 | 3,386 00 | | 27 63 | 52 36 | 56 83 | 224 05 | 96 92 | 80 32 | 132 96 | 4,057 07 |
| " " " 10 | 2,890 40 | | 43 64 | 32 50 | 45 42 | 134 08 | 34 00 | 30 63 | 105 74 | 3,316 41 |
| " " " 11 | 8,330 60 | | 143 45 | 85 20 | 29 56 | 332 90 | 312 61 | 64 82 | 162 23 | 9,461 37 |
| " " " 12 | 5,153 80 | 225 00 | 68 19 | 48 90 | 81 14 | 138 34 | 123 68 | 81 91 | 197 86 | 6,118 82 |
| " " " 13 | 3,317 30 | | 33 29 | 32 25 | 8 50 | 282 13 | 22 32 | 40 91 | 105 21 | 3,841 91 |
| " " " 14 | 4,720 85 | | 50 68 | 45 15 | 65 87 | 202 90 | 18 70 | 157 30 | 188 43 | 5,449 88 |
| " " " 15 | 5,107 25 | | 102 04 | 46 62 | 50 50 | 124 90 | 46 48 | 113 76 | 145 94 | 5,737 49 |
| " " " 16 | 4,145 25 | | 21 29 | 42 15 | 67 25 | 134 84 | 37 29 | 133 50 | 167 30 | 4,748 87 |
| " " " 17 | 4,134 40 | | 36 87 | 29 00 | 50 22 | 4 96 | 15 00 | 142 41 | 172 66 | 4,585 52 |
| " " " 18 | 3,252 75 | | 29 93 | 25 97 | 13 26 | 9 87 | 145 99 | 69 19 | 120 06 | 3,667 02 |
| " " " 19 | 2,268 00 | | 30 72 | | | 157 83 | 5 10 | 23 50 | 88 39 | 2,573 54 |
| " " " 20 | 11,309 80 | | 135 80 | 77 60 | 58 50 | 273 44 | 210 02 | 136 55 | 398 36 | 12,600 07 |
| " " " 21 | 4,220 00 | 400 00 | 49 19 | 31 52 | 28 07 | 204 27 | 127 19 | 56 07 | 223 99 | 5,340 30 |
| " " " 22 | 4,190 10 | 110 00 | 41 32 | 39 70 | 58 10 | 77 38 | 107 04 | 91 75 | 188 74 | 4,904 13 |
| " " " 23 | 5,161 20 | | 59 67 | 11 25 | 28 75 | 113 04 | 82 47 | 160 55 | 231 35 | 5,878 28 |
| " " " 24 | 4,377 00 | | 14 13 | 36 87 | | 198 40 | 26 95 | 154 60 | 165 57 | 4,973 52 |
| " " " 25 | 4,739 25 | | 43 20 | 50 63 | 215 00 | 252 12 | 73 34 | 103 17 | 126 04 | 5,602 75 |
| " " " 26 | 3,246 00 | | 60 55 | 67 72 | 39 30 | 96 35 | 57 57 | 132 80 | 103 71 | 3,804 00 |
| " " " 27 | 4,638 50 | | 18 70 | 33 75 | 10 53 | 101 61 | 51 43 | 58 63 | 127 61 | 5,040 76 |

No. 9 shown in Grammar Schools.

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Male Primary No. 28 | $4,519 35 | | $26 06 | $30 00 | $8 50 | $89 84 | $51 88 | $57 74 | $176 39 | $4,959 76 |
| " " " 29 | 2,915 25 | | 21 81 | 83 25 | 37 50 | 103 73 | 49 58 | 171 00 | 111 99 | 3,497 11 |
| " " " 30 | 6,966 10 | | 91 30 | 115 24 | 114 78 | 397 41 | 97 93 | 123 19 | 280 15 | 8,216 10 |
| " " " 31 | 2,910 00 | | 41 26 | 48 00 | 7 61 | 130 00 | 32 11 | 57 08 | 97 41 | 3,353 47 |
| " " " 32 | 4,711 65 | $60 00 | 59 53 | 91 86 | | 250 60 | 83 34 | 111 85 | 140 41 | 5,545 24 |
| " " " 33 | 5,280 00 | | 29 33 | 25 75 | 25 88 | 262 08 | 94 82 | 128 99 | 220 59 | 6,067 44 |
| " " " 34 | 3,053 95 | | 32 54 | | 12 91 | 410 69 | 20 68 | 28 00 | 220 47 | 3,809 24 |
| " " " 35 | 3,759 85 | | 35 77 | 1 00 | | 209 38 | 74 07 | 53 39 | 176 80 | 4,310 26 |
| " " " 36 | 2,718 70 | 487 50 | 36 55 | 39 66 | | 62 86 | 60 66 | 68 03 | 89 22 | 3,563 18 |
| " " " 37 | 3,268 80 | | 28 83 | 25 72 | | 270 48 | 23 12 | 48 12 | 121 56 | 3,786 63 |
| " " " 38 | 4,337 75 | 750 00 | 56 70 | 52 75 | | 293 16 | 47 82 | 150 21 | 134 98 | 5,823 37 |
| " " " 39 | 788 25 | | 53 01 | | 51 94 | 92 90 | 109 55 | 240 07 | 196 90 | 1,532 62 |
| Totals, Male Primary | $165,546 58 | $2,820 00 | $1,824 27 | $1,596 62 | $1,591 73 | $6,693 85 | $2,897 64 | $3,721 96 | $6,331 69 | $193,024 34 |
| Female Primary No. 1 | $1,342 35 | | $54 19 | $4 40 | $21 36 | $4 96 | $190 69 | $71 94 | $96 85 | $4,786 74 |
| " " " 2 | 4,046 35 | | 31 36 | 20 00 | 46 28 | 77 90 | 83 45 | 54 27 | 160 84 | 4,523 45 |
| " " " 3 | 6,244 80 | | 40 44 | 80 00 | 49 31 | 106 49 | 45 98 | 55 17 | 214 03 | 6,836 22 |
| " " " 4 | 4,010 00 | | 13 27 | | 11 20 | 288 80 | 30 72 | 59 61 | 145 32 | 4,588 92 |
| " " " 5 | 6,659 10 | | 72 33 | | 58 61 | 274 79 | 142 90 | 121 37 | 185 10 | 7,514 20 |
| " " " 6 | 5,551 50 | $112 50 | 30 71 | 41 20 | 8 50 | 119 92 | 91 74 | 181 76 | 239 15 | 6,376 98 |
| " " " 7 | 3,253 00 | | 31 81 | 83 11 | | 109 30 | 35 13 | 13 41 | 118 86 | 3,674 92 |
| " " " 8 | 2,824 50 | | 9 30 | 52 37 | 16 20 | 172 80 | 96 69 | 53 62 | 71 27 | 3,296 75 |
| " " " 10 | 2,985 70 | | 26 13 | 32 50 | 55 12 | 134 09 | 24 50 | 47 30 | 118 64 | 3,423 98 |
| " " " 11 | 7,616 50 | | 56 51 | 130 15 | 24 70 | 304 15 | 310 41 | 58 55 | 312 84 | 8,813 81 |
| " " " 12 | 4,705 00 | 75 00 | 55 12 | 37 44 | 21 18 | 138 33 | 199 67 | 128 78 | 185 64 | 5,546 16 |
| " " " 13 | 3,294 55 | | 15 54 | 32 25 | 5 11 | 286 34 | 20 83 | 42 34 | 102 61 | 3,799 57 |
| " " " 14 | 4,099 60 | | 25 27 | 45 15 | 6 48 | 202 90 | 13 85 | 193 02 | 174 59 | 4,760 86 |
| " " " 15 | 4,687 00 | | 38 75 | 56 51 | 24 02 | 124 90 | 47 45 | 100 87 | 235 16 | 5,314 66 |
| " " " 16 | 3,293 15 | | 10 48 | 42 15 | 26 00 | 122 33 | 31 81 | 135 77 | 129 94 | 3,791 63 |
| " " " 17 | 4,208 00 | | 38 53 | 29 00 | 23 73 | 21 21 | 24 82 | 108 66 | 148 29 | 4,602 24 |
| " " " 18 | 3,204 00 | | 29 23 | 25 98 | 68 35 | 5 63 | 143 97 | 53 61 | 88 66 | 3,619 43 |
| " " " 19 | 2,189 60 | | 14 21 | | 8 50 | 157 82 | | 23 62 | 86 12 | 2,479 87 |
| " " " 20 | 9,352 40 | | 94 12 | 72 60 | 8 50 | 359 69 | 206 53 | 134 16 | 330 72 | 10,558 72 |

No. 9 shown in Grammar Schools.

TABLE B—Continued.

| Schools. | Salaries. | Rents. | Books and Stationery. | Heating Apparatus and Repairs. | Furniture. | Fuel. | Repairs and Cleaning | Incidentals, Printing, Etc. | Free Books. | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|
| Female Primary No. 21 | $4,202 00 | ..... | $62 28 | $37 03 | $93 08 | $154 52 | $92 32 | $67 70 | $53 06 | $4,761 99 |
| " " " 22 | 5,006 55 | ..... | 44 31 | 44 30 | 41 22 | 65 59 | 38 85 | 92 89 | 172 83 | 5,506 54 |
| " " " 23 | 5,136 35 | ..... | 34 16 | 774 79 | 15 64 | 143 04 | 61 23 | 176 37 | 93 42 | 6,435 00 |
| " " " 24 | 4,356 00 | ..... | 34 84 | 41 88 | ..... | 198 40 | 22 85 | 165 67 | 183 35 | 5,002 99 |
| " " " 25 | 4,767 70 | ..... | 38 90 | 50 62 | 244 80 | 245 02 | 41 33 | 126 24 | 162 29 | 5,676 90 |
| " " " 26 | 3,156 00 | ..... | 19 88 | 75 98 | 29 59 | 96 36 | 42 93 | 90 58 | 129 56 | 3,640 88 |
| " " " 27 | 4,696 65 | ..... | 59 87 | 30 00 | 48 03 | 126 81 | 48 20 | 70 96 | 194 99 | 5,275 51 |
| " " " 28 | 4,515 80 | ..... | 19 96 | 28 50 | 5 67 | 89 83 | 46 31 | 95 73 | 167 50 | 4,969 30 |
| " " " 29 | 2,885 40 | ..... | 20 36 | 61 25 | 17 49 | 91 74 | 73 89 | 189 67 | 109 52 | 3,449 32 |
| " " " 30 | 6,717 80 | ..... | 58 70 | 145 26 | 135 55 | 374 41 | 105 31 | 145 15 | 270 35 | 7,951 53 |
| " " " 31 | 3,288 00 | ..... | 24 41 | 48 00 | 17 00 | 130 00 | 42 37 | 58 16 | 52 29 | 3,660 23 |
| " " " 32 | 4,172 05 | $30 00 | 55 65 | 64 95 | ..... | 247 72 | 72 57 | 183 73 | 124 33 | 4,951 00 |
| " " " 33 | 4,148 80 | ..... | 23 24 | 31 50 | 8 50 | 262 10 | 86 94 | 133 28 | 147 90 | 4,842 26 |
| " " " 34 | 2,643 00 | ..... | 20 81 | ..... | 14 17 | 397 42 | 26 52 | 36 93 | 232 22 | 3,371 07 |
| " " " 35 | 3,334 60 | ..... | 38 79 | ..... | 4 50 | 200 88 | 65 16 | 64 28 | 117 58 | 3,825 79 |
| " " " 36 | 2,677 35 | 337 50 | 8 77 | 59 43 | 27 83 | 51 36 | 66 78 | 90 22 | 82 40 | 3,401 64 |
| " " " 37 | 2,906 00 | 75 00 | 34 04 | ..... | ..... | 270 48 | 20 93 | 42 59 | 105 56 | 3,454 60 |
| " " " 38 | 3,733 00 | ..... | 50 18 | 49 00 | 18 47 | 202 18 | 74 84 | 94 42 | 163 73 | 4,385 82 |
| " " " 39 | 606 65 | ..... | 53 10 | ..... | 246 93 | 92 90 | 107 86 | 226 90 | 193 82 | 1,528 16 |
| Totals, Female Primary | $159,516 80 | $630 00 | $1,392 55 | $2,327 60 | $1,480 62 | $6,453 11 | $2,878 33 | $3,819 30 | $5,901 33 | $184,399 64 |
| Colored High School | $7,296 00 | ..... | $96 66 | $83 85 | $455 78 | $471 18 | $159 20 | $690 77 | $516 22 | $9,769 66 |
| Colored Grammar No. 1 | 7,898 60 | $480 00 | 90 40 | 5 40 | 5 11 | 175 97 | 89 56 | 173 45 | 513 01 | 9,431 50 |
| Colored Grammar No. 2 | 4,623 75 | ..... | 73 67 | 68 00 | 40 33 | 166 60 | 64 32 | 85 54 | 269 75 | 5,391 96 |
| Grammar Colored No. 3 | 5,395 80 | ..... | 53 32 | 43 65 | 24 49 | 196 43 | 33 68 | 88 77 | 296 60 | 6,132 74 |
| Male Colored No. 1 | 3,416 56 | 775 00 | 59 43 | 12 10 | 5 16 | 112 00 | 79 22 | 24 94 | 112 03 | 4,596 38 |
| Male Colored No. 2 | 3,616 95 | ..... | 33 06 | 17 95 | 16 33 | 117 04 | 46 92 | 90 96 | 141 64 | 4,080 85 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Male Colored No. 3 | $6,073 20 | | $25 93 | $33 50 | $15 34 | $184 34 | $32 10 | $106 94 | $227 87 | $6,699 22 |
| " " " 4 | 5,564 10 | | 23 19 | 51 58 | 21 06 | 126 49 | 151 87 | 69 40 | 167 15 | 6,174 84 |
| " " " 5 | 2,971 60 | | 29 84 | 19 87 | 57 35 | 105 44 | 25 60 | 86 73 | 133 70 | 3,430 13 |
| " " " 6 | 3,736 95 | | 31 54 | 20 00 | | 101 96 | 48 13 | 102 92 | 103 54 | 4,145 04 |
| " " " 7 | 6,803 30 | | 38 66 | 61 80 | 69 07 | 202 90 | 194 51 | 107 84 | 245 29 | 7,723 37 |
| " " " 8 | 4,900 95 | $789 00 | 69 85 | 73 12 | | 128 36 | 105 20 | 196 43 | 131 27 | 6,394 18 |
| " " " 9 | 8,558 70 | 500 00 | 63 81 | 84 30 | 577 28 | 291 12 | 478 82 | 282 02 | 317 99 | 11,154 04 |
| M. & F. G. & P. No. 10 | 6,246 25 | | 145 73 | 1 00 | | 418 46 | 194 48 | 76 24 | 511 19 | 7,593 35 |
| Female Colored No. 1 | 4,496 15 | | 47 83 | 13 10 | 5 11 | 102 75 | 111 45 | 22 49 | 216 11 | 5,014 99 |
| " " " 2 | 3,702 00 | | 29 47 | 17 94 | 8 10 | 125 51 | 47 81 | 54 22 | 135 79 | 4,120 84 |
| " " " 3 | 6,029 75 | | 30 61 | 14 75 | 5 67 | 184 33 | 20 20 | 134 49 | 243 97 | 6,663 77 |
| " " " 4 | 5,100 00 | | 36 29 | 45 83 | 30 78 | 119 76 | 153 15 | 84 32 | 84 00 | 5,654 13 |
| " " " 5 | 3,138 60 | | 18 62 | 44 63 | 9 67 | 73 14 | 30 55 | 53 89 | 162 96 | 3,532 06 |
| " " " 6 | 3,108 20 | | 31 74 | 20 00 | | 101 96 | 55 38 | 96 62 | 118 32 | 3,532 22 |
| " " " 7 | 8,177 25 | | 84 04 | 61 80 | 31 41 | 202 90 | 200 50 | 171 58 | 257 82 | 9,187 30 |
| " " " 8 | 5,178 50 | | 41 40 | 64 03 | 17 50 | 140 86 | 110 94 | 214 39 | 184 26 | 5,951 88 |
| " " " 9 | 8,667 40 | 360 00 | 66 24 | 79 30 | 523 16 | 334 89 | 506 41 | 153 84 | 292 92 | 10,984 16 |
| Totals, Colored | $125,000 50 | $2,904 00 | $1,221 33 | $937 50 | $1,918 70 | $4,184 39 | $2,940 00 | $3,168 79 | $5,383 40 | $147,658 61 |
| Annex, No. 1 | $4,320 40 | $144 00 | $35 99 | $37 82 | | $194 72 | $107 42 | $107 14 | $217 28 | $5,164 77 |
| " " 2 | 14,184 05 | 480 00 | 110 76 | 93 60 | $8 50 | 414 44 | 154 49 | 337 28 | 737 10 | 16,520 22 |
| " " 3 M. G | 5,396 60 | | 79 76 | 11 29 | 1,233 13 | 107 42 | 236 68 | 266 43 | 249 69 | 7,581 00 |
| " " 3 F. G | 4,845 40 | 366 67 | 72 26 | 38 12 | 898 51 | 107 43 | 235 70 | 618 58 | 452 67 | 7,635 34 |
| " " 3 F. P | 1,592 00 | | 35 68 | 2 00 | 377 89 | | | 173 50 | 68 91 | 2,249 98 |
| " " 4 M. & F. P | 5,591 15 | | 20 73 | 25 50 | 4 05 | 231 44 | 10 80 | 128 40 | 195 63 | 6,207 70 |
| " " 5 M. & F. P | 4,128 15 | 600 00 | 29 93 | 50 10 | | 203 07 | 80 16 | 168 66 | 157 67 | 5,417 74 |
| " " 6 M. & F. G | 6,028 85 | | 172 61 | 5 00 | | 236 89 | 34 20 | 185 83 | 313 47 | 6,976 85 |
| " " 7 | 6,326 75 | | 113 87 | 52 00 | 15 50 | 184 45 | 14 00 | 108 23 | 295 73 | 7,110 53 |
| " " 8 | 12,316 80 | | 164 23 | 112 80 | 57 61 | 796 16 | 181 33 | 183 38 | 712 06 | 14,524 37 |
| " " 9 | 5,731 35 | | 47 57 | 63 00 | 86 67 | 339 05 | 118 25 | 263 27 | 236 51 | 6,885 67 |
| " " 10 M. & F. G | 3,336 50 | | 67 37 | | | 36 93 | 127 27 | 86 03 | 201 60 | 3,855 70 |
| " " 11 | 8,092 80 | | 123 35 | 84 00 | 15 89 | 446 75 | 71 50 | 175 76 | 376 97 | 9,387 02 |
| " " 13 | 11,162 65 | | 250 91 | 69 15 | 75 17 | 608 08 | 178 67 | 151 17 | 438 62 | 12,934 42 |
| " " 14 | 2,927 25 | 450 00 | 36 13 | 35 75 | 44 96 | 150 40 | 50 15 | 124 10 | 112 06 | 3,930 80 |

Male and Female Primary and Grammar.

TABLE B—Continued.

| Schools. | Salaries. | Rents. | Books and Stationery. | Heating Apparatus and Repairs. | Furniture. | Fuel. | Repairs and Cleaning | Incidentals, Printing, Etc. | Free Books. | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Annex No. 15 | $5,840 60 | ..... | $183 26 | $63 00 | $37 56 | $701 65 | $177 07 | $226 65 | $791 58 | $8,021 37 |
| " " 16 M. P. | 5,288 00 | ..... | 48 07 | 76 40 | 58 11 | 262 39 | 56 39 | 68 41 | 152 56 | 6,010 33 |
| " " 16 F. P. | 2,803 60 | ..... | 15 44 | ..... | ..... | 247 39 | 3 00 | 22 00 | 66 87 | 3,158 30 |
| " " 17 M. & F. P. | 3,890 85 | $337 50 | 46 76 | 62 50 | 24 70 | 156 53 | 25 80 | 92 49 | 93 13 | 4,730 26 |
| " " 18 M. G. | 5,305 20 | ..... | ..... | 13 30 | 1,051 54 | 381 66 | 256 66 | 292 03 | 1,637 21 | 8,937 60 |
| " " 18 F. G. | 1,071 00 | ..... | 85 01 | ..... | 1,024 34 | 340 91 | 261 18 | 288 13 | ..... | 3,070 57 |
| " " 18 M. & F. P. | 769 00 | ..... | ..... | ..... | 387 10 | ..... | 8 62 | 18 16 | ..... | 1,182 88 |
| * " " 19 | 3,477 86 | ..... | 29 07 | 39 55 | 29 74 | 173 37 | 83 93 | 102 16 | 283 85 | 4,219 47 |
| * " " 1 Colored | 2,257 75 | 120 00 | 17 48 | ..... | ..... | 89 05 | 46 67 | 28 72 | 107 62 | 2,667 29 |
| * " " 2 " | 1,425 50 | 300 00 | 21 39 | 3 75 | 4 86 | 94 95 | 58 33 | 29 73 | 58 22 | 1,996 73 |
| * " " 3 " | 1,783 50 | ..... | 9 88 | 50 70 | 26 73 | 503 45 | 70 91 | 38 80 | 64 23 | 2,548 20 |
| Totals, Annex | $129,893 50 | $2,798 17 | $1,817 51 | $989 33 | $5,462 56 | $7,008 58 | $2,649 18 | $4,285 04 | $8,021 24 | $162,925 11 |
| Night Bohemian | $786 50 | ..... | $2 62 | ..... | ..... | ..... | ..... | ..... | $4 86 | $793 98 |
| " No. 1 | 284 41 | ..... | 2 62 | ..... | ..... | ..... | ..... | $32 00 | 13 41 | 332 44 |
| " " 2 Male | 988 19 | ..... | 12 58 | ..... | ..... | ..... | ..... | 130 75 | 56 33 | 1,187 85 |
| " " 2 Female | 663 45 | ..... | 8 79 | ..... | ..... | ..... | ..... | 37 50 | ..... | 709 74 |
| " " 3 | 536 14 | ..... | 2 62 | ..... | ..... | ..... | ..... | ..... | 20 22 | 558 98 |
| " " 5 | 270 46 | ..... | 2 62 | ..... | ..... | ..... | ..... | 37 00 | ..... | 310 08 |
| " " 8 | 303 00 | ..... | 2 62 | ..... | ..... | ..... | ..... | 28 50 | ..... | 334 12 |
| " " 11 | 348 00 | ..... | 4 68 | ..... | ..... | ..... | ..... | 17 76 | ..... | 370 44 |
| " " 12 | 1,144 77 | ..... | 18 29 | ..... | ..... | ..... | ..... | 59 37 | 85 08 | 1,307 51 |
| " " 17 | 804 59 | ..... | 2 62 | ..... | ..... | ..... | ..... | ..... | 46 85 | 854 06 |
| " " 7 | 584 23 | ..... | 18 55 | ..... | ..... | ..... | ..... | 18 79 | ..... | 621 57 |
| " " 1 Colored | 727 77 | ..... | 2 62 | ..... | ..... | ..... | ..... | ..... | 48 02 | 778 41 |
| " " 3 " | 988 82 | ..... | 2 62 | ..... | ..... | ..... | ..... | 31 13 | 11 26 | 1,033 83 |
| " " 4 " | 533 32 | ..... | 2 62 | ..... | ..... | ..... | ..... | 19 88 | ..... | 555 82 |
| Totals, Night | $8,963 65 | ..... | $86 47 | ..... | ..... | ..... | ..... | $412 68 | $286 03 | $9,748 83 |

*Male and Female Primary and Grammar.

TABLE B—Concluded.

SUMMARY OF THE ITEMIZED EXPENDITURES OF THE SEVERAL GRADES OF SCHOOLS.

| SCHOOLS. | Salaries. | Rents. | Station-ery. | Heating Appa-ratus and Repairs. | Furniture | Fuel. | Repairs and Cleaning. | Incident-als, Advert's'g Etc. | Free Text Books. | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|
| General expense | $37,641 53 | $926 50 | $85 55 | ..... | $231 57 | $16 00 | $314 37 | $7,781 19 | ..... | $46,996 71 |
| Public School Library | 900 00 | 300 00 | 14 62 | 17 77 | 52 65 | 39 63 | 75 83 | 268 32 | ..... | 1,668 82 |
| Baltimore City College | 35,187 65 | ..... | 327 40 | 97 50 | 21 06 | 687 25 | 193 28 | 1,164 48 | 2,006 02 | 39,684 64 |
| Eastern Fem. High School | 14,328 00 | ..... | 149 43 | 74 45 | 62 65 | 428 52 | 262 21 | 201 72 | 1,897 42 | 17,404 40 |
| Western Fem. High School | 17,148 00 | ..... | 109 28 | ..... | 2,466 75 | 309 75 | 176 97 | 161 55 | 1,728 16 | 22,100 46 |
| Male Grammar Schools | 138,395 95 | 2,434 00 | 2,116 59 | 2,105 10 | 983 61 | 5,134 07 | 2,667 76 | 3,233 04 | 9,153 26 | 166,223 38 |
| Female Grammar Schools | 121,371 55 | 1,430 00 | 1,580 63 | 2,418 26 | 955 73 | 5,196 80 | 2,130 16 | 3,122 74 | 9,348 96 | 147,554 83 |
| English-German Schools | 107,709 85 | 2,437 50 | 1,410 75 | 652 86 | 416 11 | 3,918 62 | 2,214 08 | 2,017 75 | 4,991 01 | 125,768 53 |
| Male Primary Schools | 165,546 58 | 2,820 00 | 1,824 27 | 1,596 62 | 1,591 73 | 6,693 85 | 2,897 64 | 3,721 96 | 6,331 69 | 193,024 34 |
| Female Primary Schools | 159,516 80 | 630 00 | 1,392 55 | 2,327 60 | 1,480 62 | 6,453 11 | 2,878 33 | 3,819 30 | 5,901 33 | 184,399 64 |
| Total White Schools | $797,745 91 | $10,978 00 | $9,011 07 | $9,290 16 | $8,262 48 | $28,877 60 | $13,810 63 | $25,492 05 | $41,357 85 | $944,825 75 |
| Total Colored Schools | 125,000 50 | 2,904 00 | 1,221 33 | 937 50 | 1,918 70 | 4,184 39 | 2,940 00 | 3,168 79 | 5,383 40 | 147,658 61 |
| White and Colored | $922,746 41 | $13,882 00 | $10,232 40 | $10,227 66 | $10,181 18 | $33,061 99 | $16,750 63 | $28,660 84 | $46,741 25 | $1,092,484 36 |
| Balto. Polytechnic Insti'e | 25,241 00 | ..... | 965 60 | ..... | 184 18 | 492 79 | 232 48 | 5,971 55 | 529 57 | 33,617 17 |
| Col'd Polytechnic Insti'e | 5,917 50 | ..... | 24 96 | ..... | ..... | 117 25 | ..... | 2,017 58 | 453 21 | 8,530 50 |
| Annex Schools | 129,893 50 | 2,798 17 | 1,817 51 | 989 33 | 5,462 56 | 7,008 58 | 2,649 18 | 4,285 04 | 8,021 24 | 162,925 11 |
| Night Schools | 8,963 65 | ..... | 86 47 | ..... | ..... | ..... | ..... | 412 68 | 286 03 | 9,748 83 |
| Grand totals | $1,092,762 06 | $16,680 17 | $13,126 94 | $11,216 99 | $15,827 92 | $40,680 61 | $19,632 29 | $41,347 69 | $56,031 30 | $1,307,305 97 |

## TABLE C.

SHOWING THE LOCATION OF SCHOOLS, SIZE OF LOTS, AMOUNT OF GROUND RENTS, AMOUNT PAID ON ACCOUNT OF LOTS, SIZE OF BUILDINGS, ESTIMATED VALUE OF BUILDINGS AND DATE OF ERECTION.

| SCHOOLS. | LOCATION. | SIZE OF LOT. | AMOUNT OF GROUND RENT. | AMOUNT PAID ON ACCOUNT OF LOT. | SIZE OF BUILDING. | ESTIMATED VALUE OF BUILDING. | DATE OF ERECTION. |
|---|---|---|---|---|---|---|---|
| Baltimore City College | Howard, opposite Centre | 208⅚ x 260 | $4,600 00 | $50,000 00 | 155⅒ x 221⅛ | $203,639 | 1896 |
| E. F. High School | Aisquith and Orleans | 102 x 210 | 540 90 | 2,651 50 | 102 x 56 | 80,000 | 1868 |
| | Side lot and rear building | 39 x 180 | 75 00 | 15,000 00 | 51 x 58 | ..... | |
| W. F. High School | McCulloh and Lafayette avenue | 238⅞ x 230 | 1,188 00 | 70,666 66 | 86⅝ x 191¼ | 132,000 | 1895 |
| Polytechnic Instit'e. | Courtland, near Saratoga (old building) | 82 x 90 | ..... | 6,137 75 | 44 x 90 | 18,000 | 1868 |
| | Courtland, near Saratoga (new building) | 62⅝ x 90 | 220 00 | 10,000 00 | 54 x 90 | 25,000 | 1890 |
| | Courtland, near Saratoga (additional lot) | 37⅝ x 90 | ..... | 10,000 00 | ..... | ..... | |
| Male G. and P. No. 1 | N. E. corner Fayette and Greene | 97 x 102 | 204 00 | 9,000 00 | 83 x 96⅞ | 25,000 | 1880 |
| Female G. and P. No. 1 | S. W. " " " " | 77⅙ x 170 | 1,094 75 | ..... | 62 x 140 | 27,000 | 1875 |
| Grammar No. 2 | Broadway and Bank | 100 x 141 | 244 44 | ..... | 101 x 39 | 30,000 | 1888 |
| | Broadway and Bank (rear bldg) | ..... | ..... | ..... | 52 x 87 | ..... | |
| G. and P. No. 3 | High, near Fayette | 80 x 167⅝ | 900 00 | ..... | 50 x 145 | 28,800 | 1875 |
| Grammar No. 4 | Sharp, near Montgomery | 100 x 155 | 675 00 | ..... | 56 x 85 | 18,000 | 1869 |
| " " 5 | Greenmount avenue and Eager | 66 x 150⅝ | 600 00 | ..... | 55 x 100 | 17,000 | 1872 |
| " " 6 | Division, near Lanvale | 101⅔ x 171⅜ | 800 00 | ..... | 55 x 120 | 21,000 | 1877 |
| " " 7, old | Eastern avenue and Burke | 100 x 150 | 350 00 | ..... | 52 x 136 | 24,000 | 1880 |
| " " 7, new | Eastern avenue and Patuxent | 145 x 300 | 1,001 00 | ..... | 80 x 143 | 50,000 | ..... |
| " " 8, old | Hollins, near Monroe | 140 x 129 | 700 00 | ..... | 54 x 112 | 18,000 | 1877 |
| " " 8, new | Hollins and Monroe | Old lot. | ..... | ..... | 55 x 104 | 21,000 | 1890 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Grammar No. | 10 | William and Warren avenue | 70 | x | 140 | $175 00 | | | 44 | x | 103 | $13,000 | 1850 |
| " | 11 | Bond and Jefferson | 70 | x | 152[3] | 19 00 | $8,700 00 | | 56 | x | 116 | 20,000 | 1884 |
| " | 12 | Ridgely, near Fremont | 124 | x | 155 | 620 62 | | | 73 | x | 125 | 25,000 | 1877 |
| " | 13 | Aisquith, near Lexington | 80 | x | 180 | 25 00 | 17,100 00 | | 44 | x | 100 | 17,000 | 1870 |
| Male Grammar No. | 15 | Carrollton ave., near Lexington | 100 | x | 160[1] | 400 00 | | | 55 | x | 107 | 20,000 | 1860 |
| Female Grammar No. | 15 | Carrollton ave. and Lexington | 49[6] | x | 103 | | 10,000 00 | | 49 | x | 135 | 20,000 | 1886 |
| Grammar No. | 16 | Hull and Clement (Locust Point) | 100 | x | 155[3] | 350 00 | | | 56 | x | 113 | 18,000 | 1882 |
| " | 17 | Washington, near Fayette | 93 | x | 190 | 581 25 | | | 52 | x | 119 | 20,000 | 1871 |
| " | 18 | Harlem avenue and Monroe | 85 | x | 249[6] | 830 68 | | | 56[4] | x | 143[6] | 30,500 | 1893 |
| Gram. and Prim. No. | 19 | Park avenue and Hoffman | 120 | x | 150 | 1,020 00 | | | 100 | x | 147 | 35,000 | 1892 |
| Grammar No. | 20 | Eden and Federal | 180[6] | x | 100 | | 8,000 00 | | 60 | x | 124 | 33,000 | 1890 |
| " | 21 | Presstman and Gilmor | 102[5] | x | 155 | 620 00 | | | 55 | x | 121 | 32,000 | 1876 |
| " | 22 | Mulberry, near Fremont | 87[8] | x | 134 | 350 67 | | | 54 | x | 85 | 15,000 | 1868 |
| Eng.-Ger. | 1, old | Druid Hill avenue, near Biddle | 75 | x | 100 | 150 00 | | | 44 | x | 100 | 12,000 | 1841 |
| † " | 1, new | Pennsylvania ave. and Dolphin | 189x80 | | (110) | 1,147 50 | | | 56[4] | x | 138 | 26,000 | 1893 |
| " | 2 | Charles and Ostend | 74[6] | x | 219[2] | 372 50 | | | 56 | x | 150 | 28,000 | 1882 |
| " | 3 | Baltimore, near Aisquith | 120 | x | 170 | 1,300 00 | 5,000 00 | | 54 | x | 118 | 28,000 | 1879 |
| " | 4 | Chase and McDonogh | 80 | x | 223 | 501 75 | | | 56 | x | 183[2] | 30,500 | 1882 |
| " | 5 | Lexington, near Fremont | 81 | x | 220[6] | | 15,000 00 | | 60 | x | 124 | 25,000 | 1890 |
| " | 6 | Ramsay and Smallwood | 178[7] | x | 165[6] | | 4,000 00 | | 53 | x | 135 | 36,885 | 1895 |
| Primary | 2 | Gough and Stiles | 75 | x | 92 | 250 00 | 3,500 00 | | 32 | x | 55 | 9,000 | 1854 |
| " | 4 | Hanover and Lee | 105 | x | 81 | 270 00 | 4,000 00 | | 92 | x | 92 | 35,000 | 1896 |
| " | 5 | Broadway and Ashland avenue | 120 | x | 120 | 600 00 | | | 60 | x | 113 | 24,000 | 1876 |
| " | 6 | Ann, near Canton avenue | 63 | x | 140 | 157 50 | 6,800 00 | | 16 | x | 100 | 14,800 | 1878 |
| " | 7 | Mullikin, near Aisquith | 74 | x | 100 | [xx] | | | 45 | x | 65 | 5,000 | 1864 |
| " | 8 | Caroline, near Lombard | 105[5] | x | 150 | 351 31 | 6,200 00 | | 94[7] | x | 59[7] | 18,000 | 1888 |
| " | 10 | Hollins, near Schroeder | 60[8] | x | 134 | 200 00 | | | 46 | x | 70 | 6,000 | 1855 |
| " | 11 | Gilmor and Mosher | 126[2] | x | 156[10] | 757 00 | | | 57[9] | x | 104 | 30,000 | 1886 |
| " | | " " " (rear building) | | | | | | | 30[7] | x | 105[9] | | 1889 |
| " | 12 | Barre and Warner | 67 | x | 120 | 268 00 | | | 55 | x | 84 | 16,000 | 1870 |
| " | 13 | Patterson Park ave. & McElderry | 155 | x | 115 | 530 00 | | | 55 | x | 105 | 21,000 | 1890 |
| " | 14 | Linden avenue and Wilson | 105 | x | 150 | 840 00 | | | 55 | x | 117 | 20,000 | 1882 |
| " | 15 | Saratoga and Carrollton avenue | 100 | x | 150 | 700 00 | | | 50 | x | 120 | 19,000 | 1872 |
| " | 16 | Harford and Ashland avenues | 105 | x | 158[8] | 790 00 | | | 56 | x | 113 | 19,000 | 1876 |

TABLE C.—Concluded.

| Schools. | Location. | Size of Lot. | Amount of Ground Rent. | Amount Paid on Account of Lot. | Size of Building. | Estimated Value of Building. | Date of Erection. |
|---|---|---|---|---|---|---|---|
| Primary No. 17 | Light and Poultney | 62[1] x 122 | $217 00 | $800 00 | 50 x 72 | $10,000 00 | 1875 |
| " " 18 | Argyle avenue, near Lanvale | 80 x 140 | 315 00 | ..... | 45 x 68 | 13,000 00 | 1858 |
| " " 20 | Eden and Preston | 100 x 207 | 592 00 | 6,000 00 | 51 x 167 | 35,000 00 | 1868 |
| " " 21 | Pennsylvania avenue and Robert | 80 x 155 | 384 00 | ..... | 50 x 80 | 16,000 00 | 1869 |
| " " 22 | Ramsay, near Scott | 71 x 128[6] | 177 50 | ..... | 45 x 95 | 10,000 00 | 1855 |
| " " 23 | Gough and Wolfe | 75 x 110 | 150 00 | 2,400 00 | 57[9] x 104 | 19,000 00 | 1886 |
| " " 24, new | Fait avenue and Patuxent | 150 x 100 | ..... | 7,500 00 | 77 x 86 | 21,000 00 | 1890 |
| " " 25 | Caroline, near Canton avenue | 129[6] x 110 | ..... | 14,962 50 | 93 x 90 | 25,000 00 | 1892 |
| " " 26 | Orleans, near Bond | 84 x 75 | 126 00 | 4,500 00 | 50 x 65 | 15,000 00 | 1874 |
| " " 27 | Fayette and Chester | 92 x 120 | 274 50 | ..... | 48 x 72 | 18,000 00 | 1869 |
| " " 28 | Battery avenue and Clement | 75 x 82 | 270 00 | 1,000 00 | 46 x 82 | 15,000 00 | 1869 |
| " " 29 | Sharp, near West | 114 x 155 | 570 00 | ..... | 55[9] x 104 | 21,600 00 | 1886 |
| " " 30 | Hollins, near Monroe | 150 x 129[6] | 750 00 | ..... | 55 x 82 | 16,000 00 | 1874 |
| " " 31 | Schroeder and Pierce | 60 x 122 | 228 00 | 2,500 00 | 57[4] x 102 | 21,000 00 | 1890 |
| " " 32 | Guilford avenue and Lanvale | 80 x 154 | ..... | 11,800 00 | 67 x 98 | 21,000 00 | 1890 |
| " " 33 | Light and Clement | 100 x 100 | ..... | 10,000 00 | 67 x 98 | 21,000 00 | 1890 |
| " " 34 | Carey and Columbia avenue | 100 x 160 | 385 00 | ..... | 113 x 58 | 30,000 00 | 1896 |
| " " 35 | Hanover and Winder | 132 x 198 | ..... | 6,700 00 | 48[6] x 114[2] | 28,297 00 | 1895 |
| " " 37 | Biddle and Patterson Park avenue | 165 x 150 | ..... | 8,500 00 | 89 x 61 | 25,000 00 | 1896 |
| F. Primary No. 38, old | Chesapeake & Hudson (Canton) | 80 x 100 | ..... | ..... | 32 x 50 | 5,000 00 | 1853 |
| Primary No. 39 | Carrollton and Riggs avenues | 97[1] x 157 | ..... | 7,000 00 | 52[4] x 97[5] | 19,000 00 | 1888 |
| Col. Manual Training | Fremont, near Lombard | 74 x 150 | ..... | 1,200 00 | 44 x 65 | 8,000 00 | 1843 |
| H. & G. & F. C. No. 1 | Saratoga, near Charles | 66 x 193 | 600 00 | 16,000 00 | 52[2] x 126[3] | 25,000 00 | 1888 |
| Colored Grammar No. 2 | Jefferson, near Caroline | 83[6] x 80 | 200 00 | 1,350 00 | 32 x 80 | 5,000 00 | 1855 |
| " " " 3 | Howard and Montgomery | 50 x 104 | 120 00 | 8,000 00 | 40 x 64 | 6,000 00 | 1872 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Colored Primary No. 2. | Rogers avenue, near Lexington | 75 | x | 105 | $25 00 | $5,125 00 | 49 | x | 80 | $13,000 00 | 1874 |
| " " " 3. | Hill, near Sharp | 99 | x | 90(155) | 192 00 | 11,300 00 | 76[9] | x | 133[11] | 27,000 00 | 1893 |
| " " " 4. | Biddle, near Pennsylvania avenue | 70 | x | 150 | 70 00 | 5,000 00 | 40 | x | 92 | 10,000 00 | 1870 |
| " " " 5. | Caroline, near Bank | 76 | x | 90 | 70 00 | 4,800 00 | 45 | x | 65 | 8,000 00 | 1867 |
| " " " 6. | Barre, near Eutaw | 65 | x | 112 | 300 00 | ..... | 40 | x | 80 | 10,000 00 | 1854 |
| " " " 7. | Waesche, near Fremont avenue | 143[9] | x | 129* | 480 00 | ..... | 59 | x | 120 | 22,000 00 | 1877 |
| " " " 8. | Bond and Ashland avenue | 80 | x | 80 | 130 00 | ..... | 40 | x | 54 | 7,000 00 | 1864 |
| New lot for No. 8. | Ashland avenue and Chester street | 133 | x | 200 | 959 75 | ..... | ..... | | ..... | ..... | |
| Colored Primary No. 9. | Carey and Chappell | 135[9] | x | 142 | 630 00 | ..... | 109 | x | 65 | 40,408 70 | 1897 |
| Colored Primary No. 10. | Girard avenue and Sherman Place | 120 | x | 124 | ..... | 7,200 00 | 68[5] | x | 77[4] | 23,968 00 | 1895 |
| Primary No. — | Summit and Monroe | 72[4] | x | 245 | ..... | 9,500 00 | ..... | | ..... | ..... | |
| Annex No. 1 | Homestead, Gorsuch avenue | 42 | x | 90 | ..... | 1,000 00 | 35 | x | 50 | 1,500 00 | .... |
| " " 2 | Waverly, York road | 100 | x | 200 | ..... | 4,000 00 | 35[9] | x | 90 | 14,500 00 | .... |
| | Rear building | ..... | | ..... | ..... | ..... | 50 | x | 33 | | |
| " " 3, Male | Oak and Fifth (Twenty-fourth) | 60 | x | 122 | ..... | 4,000 00 | 50 | x | 60 | 10,000 00 | .... |
| " " 3, Female | St. Paul and Twenty-sixth | 100 | x | 123 | ..... | 10,000 00 | 100 | x | 123 | 60,000 00 | 1897 |
| " " 4 | Chestnut and Fourth avenues | 176[8] | x | 230 | ..... | 5,000 00 | 55 | x | 105 | 21,000 00 | 1890 |
| " " 5 | Hampden, Merryman's lane | 87 | x | 240* | ..... | 1,000 00 | 71 | x | 24 | 1,000 00 | .... |
| " " 6 | Same as No. 4 | ..... | | ..... | ..... | ..... | ..... | | ..... | ..... | |
| " " 7 | Woodberry, on Woodberry avenue | 45 | x | 130 | 22 50 | ..... | 37 | x | 96 | 10,000 00 | .... |
| " " 8, old | Clifton, on Clifton avenue | 40 | x | 150 | ..... | 2,000 00 | 40 | x | 90 | 4,000 00 | .... |
| " " 8, new | Francis, near Fulton avenue | 150 | x | 150 | 480 00 | ..... | 64[4] | x | 105 | 25,000 00 | 1893 |
| " " 9 | Calverton, Bloomingdale road | 75 | x | 169 | ..... | 1,500 00 | 60 | x | 100[7] | 15,500 00 | 1893 |
| " " 10 | Carroll, old Frederick road | 60 | x | 225* | 360 00 | 2,000 00 | 52 | x | 27 | 4,500 00 | .... |
| " " 11 | Millington avenue and Lehman | 80 | x | 200* | 290 00 | ..... | 64 | x | 119 | 21,000 00 | 1892 |
| " " 13 | North avenue and Washington | 80 | x | 150 | ..... | 5,000 00 | 66 | x | 120 | 25,000 00 | 1891 |
| " " 15 | N. E. corner Ninth and Northwest | 128 | x | 194 | ..... | 4,718 66 | 66[5] | x | 106 | 25,000 00 | 1894 |
| " " 16 | Huntingdon avenue, near Charles | 100 | x | 150 | ..... | 7,000 00 | ..... | | ..... | 18,000 00 | 1890 |
| " " 17 | Old Frederick rd. & Fairview ave | 150 | x | 257* | 360 00 | ..... | 67 | x | 92 | 15,000 00 | 1892 |
| " " 18 | Linden avenue and Konig | 165 | x | 150 | 1,155 00 | ..... | 136[8] | x | 70[5] | 54,000 00 | 1897 |
| Annex Colored No. 1 | Waverly, Merryman's lane | 127[5] | x | 32** | 50 00 | ..... | 24[6] | x | 48 | 700 00 | .... |
| " " " 3 | Frederick road, near toll-gate | 41 | x | 283* | 50 00 | 1,000 00 | 24 | x | 108 | 1,000 00 | .... |

* Irregular in form. † Occupied by Baltimore City College. ** House built on the rear of lot leased for E. F. H. School.

| | |
|---|---|
| Total amount paid on account of lots | $463,412 07 |
| Total value of buildings, actual or estimated | 2,400,097 70 |
| Amount of ground rents in the above list | 38,354 15 |

## TABLE D.

SHOWING LOCATION OF RENTED BUILDINGS, BY WHAT SCHOOLS OCCUPIED, AND AMOUNTS OF YEARLY RENTALS AS OF DECEMRER 31, 1897.

| | |
|---|---|
| Warehouse, 117 South Frederick street | $480 00 |
| Public School Library, 310 St. Paul street | 300 00 |
| *Female Grammar No. 2, 402 and 404 South Bond street | 480 00 |
| *Male Grammar No. 4, Sharp and Henrietta streets | 264 00 |
| *Male Grammar No. 8, Frederick avenue and Monroe street | 450 00 |
| Male Grammar and Primary No. 9, 808 North Calvert street | 540 00 |
| *Male Grammar No. 10, William and Hamburg streets | 180 00 |
| *Male Grammar No. 20, Caroline street, near North avenue | 300 00 |
| Female Grammar and Primary No. 9, 411 Courtland street | 600 00 |
| *Female Grammar No. 10, 125 Warren avenue | 300 00 |
| *Female Grammar No. 20, Harford avenue and Federal street | 375 00 |
| *English-German No. 3, Baltimore and Aisquith streets | 900 00 |
| *English-German No. 6, Lombard street, near Garrison lane | 600 00 |
| *English-German No. 7, 1732 East Fayette street | 400 00 |
| English-German No. 7, 117 Jackson Place | 550 00 |
| *English-German No. 7, 119 Jackson Place | 550 00 |
| *Male Primary No. 3, 118 North High street | 600 00 |
| *Male and Female Primary No. 6, Canton avenue, near Broadway | 300 00 |
| *Male and Female Primary No. 12, 611 Barre street | 300 00 |
| *Male and Female Primary No. 32, 401 Lafayette avenue | 360 00 |
| Male Primary No. 38, and branch of Male and Female Grammar No. 7, Chesapeake and O'Donnell streets | 1,200 00 |
| Male and Female Primary No. 36, 2223 East Baltimore street | 900 00 |
| Male Colored No. 1, 413 Courtland street | 775 00 |
| *Colored No. 4, S. E. Corner Tessier and Orchard streets | 216 00 |
| *Male Colored No. 8, 801 North Bond street | 420 00 |
| *Male Colored No. 8, 824 North Bond street | 300 00 |
| *Colored Grammar No. 1, 13 East Saratoga street | 480 00 |
| Colored Grammar No. 4, S.W. Corner Stricker and Mulberry streets | 360 00 |
| *Colored Grammar No. 10, 1712–1714 Greenmount avenue | 360 00 |
| *Male Colored No. 9, Gold and Calhoun streets | 360 00 |
| Annex No. 1, 250 Gorsuch avenue, Homestead | 144 00 |
| *Annex No. 2, Gilmore lane, near York road | 480 00 |
| Annex No. 5, Hickory avenue, near Fourth avenue | 600 00 |
| Annex No. 14, Park Heights avenue | 360 00 |
| Annex No. 18, Linden avenue and Konig street | 450 00 |
| *Annex Colored No. 1, Barclay street, near Merryman's lane | 120 00 |
| Annex Colored No. 2, Edmondson and Garrison avenues | 300 00 |
| Total amount of rents | $16,654 00 |

*Branch of.

# SCHEDULE

— OF —

# Salaries of Officers and Teachers of Public Schools.

## GENERAL EXPENSE ROLL.

| | |
|---|---|
| Superintendent of Public Instruction | $2,500 |
| Assistant Superintendent | 2,000 |
| Secretary | 2,000 |
| Assistant Secretary | 1,500 |
| Superintendent of Supplies | 1,800 |
| Librarian | 1,200 |
| Clerk to Secretary | 1,000 |
| Clerk to Superintendent and Secretary | 1,000 |
| Superintendents of Music, each | 1,500 |
| Librarian of Public School Library | 900 |
| Supervisor of Drawing | 720 |
| Teachers of Drawing, each | 500 |
| Directress of Sewing | 600 |
| Teachers of Sewing, each | 500 |
| Janitor of Warehouse | 520 |

## BALTIMORE CITY COLLEGE.

| | |
|---|---|
| President | $2,400 |
| Vice-President | 2,200 |
| Professors (not otherwise specified) | 2,000 |
| Professor of Writing and Book-keeping and Secretary to Faculty. | 2,000 |
| Professor of Drawing | 1,800 |
| Adjunct Professors | 1,800 |
| Tutors | 1,000 |

## FEMALE HIGH SCHOOLS.

| | |
|---|---|
| Principals | $2,400 |
| First Assistants | 1,008 |
| Other Assistants and Teachers, each | 900 |

## BALTIMORE POLYTECHNIC INSTITUTE.

| | |
|---|---|
| The present President of this school is an officer of the United States Navy, detailed for service at this school, and receives from this Board | $1,500 |
| Vice-President | 1,200 |
| Instructors | 1,200 |
| Assistants | $600, $720, $900, 1,000 |

## COLORED MANUAL TRAINING SCHOOL.

| | |
|---|---|
| Principal | $900 |
| Instructors | 900 |
| Assistants | 600 |

MALE GRAMMAR SCHOOLS.

| | 1st Year. | 2d Year. | 3d Year. |
|---|---|---|---|
| Principals | $1,296 | $1,404 | $1,500 |
| First Assistants (male) | 804 | 900 | ..... |
| First Assistants (female) | 588 | 672 | ..... |
| Second Assistants | 456 | 516 | ..... |
| Third Assistants | 444 | 504 | ..... |

ENGLISH-GERMAN SCHOOLS.

| | 1st Year. | 2d Year. | 3d Year. |
|---|---|---|---|
| Principals | $1,296 | $1,404 | $1,500 |
| Vice-Principals | 804 | 900 | 1,008 |
| First Assistants (English female) | 564 | 648 | ..... |
| First Assistants (German male) | 600 | ..... | ..... |
| Teachers in charge of lowest grade | 444 | 468 | 504 |

Other assistants in grammar grades, same as third assistants in male grammar schools.

Assistants in primary grades, same as assistants in primary schools.

FEMALE GRAMMAR SCHOOLS.

| | 1st Year. | 2d Year. |
|---|---|---|
| Principals | $804 | $900 |
| First Assistants | 564 | 648 |
| Second Assistants | 444 | 504 |
| Third Assistants | 432 | 480 |

MALE AND FEMALE PRIMARY SCHOOLS.

| | 1st Year. | 2d Year. | 3d Year. |
|---|---|---|---|
| Principals | $600 | $696 | ... |
| Assistants | 408 | 432 | $468 |
| Teacher in charge of lowest grade | 444 | 468 | 504 |

COLORED HIGH SCHOOL.

The same as female high schools.

COLORED GRAMMAR SCHOOLS.

Principals and assistants the same as male grammar schools.

COLORED PRIMARY SCHOOLS.

| | 1st Year. | 2d Year. | 3d Year. |
|---|---|---|---|
| Principals (male) | $804 | $900 | .... |
| Principals (female) | 600 | 696 | .... |
| First Assistants (male) | 700 | .... | .... |
| Assistants (female) | 408 | 432 | $468 |
| Teacher in charge of lowest grade | 444 | 468 | 504 |

INTERMEDIATE SCHOOLS.

| | 1st Year. | 2d Year. | 3d Year. |
|---|---|---|---|
| Principals (males) | $1,200 | .... | .... |
| Principals (females) | 804 | .... | .... |
| First Assistants | 600 | .... | .... |
| Teacher in charge of lowest grade | 444 | $168 | $504 |

Other assistants in grammar grades, same as third assistants in female grammar schools.

Assistants in primary grades, same as assistants in primary schools.

UNCLASSIFIED SCHOOLS.

*Composed of Primary and Grammar Scholars and Not Otherwise Designated.*

| | 1st Year. | 2d Year. | 3d Year. |
|---|---|---|---|
| Principals | $696 | $780 | $900 |
| First Assistants | 504 | 552 | 600 |

SATURDAY NORMAL CLASS.

| | |
|---|---|
| Principal | $200 |
| Assistants | 150 |

NIGHT SCHOOLS.

Principals, $2.50 per night for actual service.
Assistants, $1.50 per night for actual service.

THE SCHEDULE OF SALARIES TO BE SUBJECT TO THE FOLLOWING CONDITIONS:

All below the grade of second assistant in male and female grammar schools to be graded as third assistants.

In male and female grammar schools not employing three assistants, the lowest assistant shall rank as third assistant, and so continue until there are three assistants employed in that school, excepting the first assistant, who shall in all cases rank as first assistant.

Teachers who may have served for *two full* years in any of the public schools of Baltimore, upon promotion to grammar schools shall be entitled to the second year's salary of that grade to which they may be assigned (excepting that of principal), and teachers who shall have served *three full* years, counting the time served in the public schools of Baltimore, and the time served in any school or schools of recognized merit, shall be entitled to the highest salary of the grade to which they shall be assigned (ex-

cepting the grade of principal of grammar school), from and after the date upon which they submit satisfactory written evidence of that fact to the President of the Board, who shall be vested with power to decide.

Teachers elected during the month of September shall receive the full salary for the months of July and August of the succeeding year; those elected in October shall receive nine-tenths of said salary; in November, eight-tenths, and so on to the close of the scholastic term.

Any teacher who shall have served the usual probationary period of one year before the close of the scholastic year, and who shall have been elected as a regular teacher, shall receive her proper proportion of salary for July and August.

When transfers are made from one school or position to another, the teacher transferred shall draw the salary of the position from which he or she has been transferred till the end of the month in which the transfer shall be made.

SALARIES OF JANITORS, JANITRESSES AND FIREMEN, ETC.

| | |
|---|---|
| Janitor of Baltimore City College | $1,000 |
| Assistant janitor of Baltimore City College | 600 |
| Fireman of Baltimore City College | 600 |
| Janitor of Baltimore Polytechnic Institute | 720 |
| Fireman of Baltimore Polytechnic Institute | 720 |
| Janitor of Baltimore Polytechnic Institute, new building | 720 |
| Night watchman of Baltimore Polytechnic Institute | 480 |
| Fireman of Eastern Female High School | 480 |
| Fireman of Western Female High School | 720 |
| Janitresses of Eastern Female High School | $240, 300 |
| Janitresses of Western Female High School | $240, 360 |
| Janitor of Colored Polytechnic Institute | 480 |

For large furnaces in schools having the Smead system, each $10 per month; other systems as specially fixed by the Board, and for hot-air furnaces $5 each per month.

Janitresses of schools having 3 class-rooms shall receive $9 per month; 4 class-rooms, $10 per month; 5 class-rooms, $11 per month; 6 class-rooms, $12 per month, and increase $1 per month for each additional class-room in the main building. They shall receive additional compensation for making fires in stoves from October to April, inclusive, at the rate of 75 cents per month for each stove on the first floor and $1 for each stove on the second floor, and $1.25 for each stove on the third floor. The salaries of janitresses of schools containing more than 12 class-rooms, and of janitresses of buildings used as branches of schools, shall be fixed by the President and Secretary, subject to the approval of the Board.

Janitresses of night schools, $4 per month; firemen of night schools, $5 per month.

# REPORT

OF THE

# Superintendent of Public Instruction.

BALTIMORE, January 1, 1898.

*To the Honorable the Mayor and City Council, and the Board of School Commissioners of Baltimore City:*

GENTLEMEN: The following report of the condition and statistics of the schools for the year ending December 31, 1897, is submitted for your consideration:

## SUMMARY OF STATISTICS.

| | | |
|---|---|---|
| Population of Baltimore—White, 384,394; colored, 71,033; United States census, 1890 | | 455,427 |
| Estimated population | | 500,000 |
| Basis of taxation | | $366,808,823 |
| School tax—City, 36¾ cents: State, 12½ cents | | 49¼ cents. |
| Number of pupils on roll December 31, 1897 | | 64,602 |
| Increase during the year | 1,515 | |
| Number of pupils in school during the year | | 78,542 |
| Number of teachers December 31, 1897, exclusive of special teachers | | 1,745 |
| Increase | 72 | |
| Number of schools December 31, 1897 | | 177 |
| Increase | 4 | |
| Percentage of attendance on enrollment | | 85 |
| Decrease | | .7 per cent. |

## HIGH SCHOOLS AND COLLEGE.

| | | |
|---|---|---|
| Number of pupils on roll December 31, 1897 | | 1,763 |
| Decrease | 3 | |
| Percentage of attendance (Same as last year). | | 93 |
| Number of pupils to a teacher on enrollment (Same as last year). | | 38 |
| Number of pupils to a teacher on average attendance. (Same as last year). | | 35 |

## POLYTECHNIC INSTITUTE.

| | | |
|---|---|---|
| Number of pupils on roll December 31, 1897 | | 554 |
| Increase | 29 | |
| Percentage of attendance | | 93 |
| Increase | 1 per cent. | |
| Number of pupils to a teacher on enrollment | | 25 |
| Increase | 1 | |
| Number of pupils to a teacher on average attendance. | | 23 |
| Increase | 1 | |

## GRAMMAR SCHOOLS.

| | | |
|---|---|---|
| Number of pupils on roll December 31, 1897 | | 15,146 |
| Decrease | 64 | |
| Percentage of attendance | | 88 |
| (Same as last year). | | |
| Number of pupils to a teacher on enrollment | | 36 |
| Decrease | 1 | |
| Number of pupils to a teacher on average attendance. | | 31 |
| Decrease | 1 | |

## ENGLISH-GERMAN SCHOOLS.

| | | |
|---|---|---|
| Number of pupils on roll December 31, 1897 | | 7,144 |
| Increase | 64 | |
| Percentage of attendance | | 90 |
| Decrease | 1 per cent. | |
| Number of pupils to a teacher on enrollment | | 38 |
| Decrease | 2 | |
| Number of pupils to a teacher on average attendance. | | 33 |
| Decrease | 3 | |

## PRIMARY SCHOOLS.

| | | |
|---|---|---|
| Number of pupils on roll December 31, 1897 | | 22,089 |
| Decrease | 10 | |
| Percentage of attendance | | 84 |
| Increase | 1 per cent. | |
| Number of pupils to a teacher on enrollment | | 36 |
| Decrease | 1 | |
| Number of pupils to a teacher on average attendance. | | 30 |
| Decrease | 1 | |

## COLORED SCHOOLS.

| | | |
|---|---|---|
| Number of pupils on roll December 31, 1897 | | 8,753 |
| Increase | 451 | |
| Percentage of attendance | | 80 |
| (Same as last year). | | |
| Number of pupils to a teacher on enrollment | | 37 |
| Increase | 1 | |
| Number of pupils to a teacher on average attendance. | | 30 |
| Increase | 1 | |

## ANNEX SCHOOLS.

| | | |
|---|---|---|
| Number of pupils on roll December 31, 1897 | | 8,873 |
| Increase | 957 | |
| Percentage of attendance | | 83 |
| Increase | 1 per cent. | |
| Number of pupils to a teacher on enrollment | | 42 |
| Increase | 1 | |
| Number of pupils to a teacher on average attendance | | 35 |
| Increase | 1 | |

## COLORED HIGH SCHOOL.

| | | |
|---|---|---|
| Number of pupils on roll December 31, 1897 | | 161 |
| Increase | 24 | |
| Percentage of attendance | | 93 |
| Increase | 3 per cent. | |
| Number of pupils to a teacher on enrollment | | 24 |
| Increase | 1 | |
| Number of pupils to a teacher on average attendance | | 22 |
| Increase | 1 | |

## NUMBER OF PUPILS IN PRIMARY, GRAMMAR AND HIGH SCHOOLS COMPARED.

| | Males. | Females. | Totals. |
|---|---|---|---|
| Number in fifth year, B. C. C. | 34 | ..... | 34 |
| " in fourth year, B. C. C. & High.. | 62 | 176 | 238 |
| " in third year, B. C. C., High Schools and Polytechnic Institute..... | 136 | 181 | 317 |
| " in second year, B. C. C., High Schools and Polytechnic Inst... | 244 | 348 | 592 |
| " in first year, B. C. C., High Schools and Polytechnic Institute..... | 372 | 516 | 888 |
| Totals..... | 848 | 1,221 | 2,069 |
| Number in Grammar, Eighth Grade..... | * 831 | 937 | 1,768 |
| " " Seventh " ..... | † 1,292 | 1,359 | 2,651 |
| " " Sixth " ..... | § 2,123 | 2,120 | 4,243 |
| " " Fifth " ..... | 3,017 | 3,183 | 6,200 |
| " " Fourth " ..... | 4,165 | 4,107 | 8,272 |
| Totals..... | 11,428 | 11,706 | 23,134 |
| Number in Primary, Third Grade..... | 4,708 | 4,726 | 9,434 |
| " " Second " ..... | 5,828 | 5,764 | 11,592 |
| " " First " ..... | 9,216 | 9,157 | 18,373 |
| Totals..... | 19,752 | 19,647 | 39,399 |
| Number in High Schools (about 3 per cent. of enrollment)..... | 848 | 1,221 | 2,069 |
| Number in grammar grades (about 36 per cent. of enrollment)..... | 11,428 | 11,706 | 23,134 |
| Number in primary grades (about 61 per cent. of enrollment)..... | 19,752 | 19,647 | 39,399 |
| Totals..... | 32,028 | 32,574 | 64,602 |

*Including number in Preparatory Dep't, Polytechnic Institute, 128.
†Including number in Preparatory Dep't, Polytechnic Institute, 180.
§Including number in Preparatory Dep't, Polytechnic Institute, 221.

ACCOMMODATIONS.

While there is a small amount of space in some of the buildings which might be utilized, and in the interests of economy and sound educational procedure should be, yet it is a fact that many of our buildings are unsuitable from an educational standpoint, and that additional accommodations are needed for carrying on the work of the schools. Every one who is well acquainted with the condition of the schools knows that the lack of many necessary facilities prevents our schools from securing educational results which would otherwise be accomplished. Many of the buildings do not supply the requisite amount of space to enable the teachers and scholars to perform their work to the best advantage. Some of the buildings, while the class-rooms supply the requisite amount of space, are in such an unsanitary condition as to render them unsuitable for school purposes, and they should, when possible, be altered so as to remedy existing defects, or when this cannot be done they should be abandoned and suitable buildings furnished. I feel confident if your honorable bodies had the time to inspect personally and thoroughly some of the buildings in use, that you would be convinced at once that on account of health and instruction it is necessary at once to make necessary changes.

Mr. Owens, the Inspector of Buildings, has been an efficient and valuable officer. The buildings erected under his supervision, in accordance with the plans made by the Art Commission, are very satisfactory. Intelligent plans and oversight in construction as to the size of class-rooms, their arrangement, heating, lighting and ventilation have been observed in the construction of buildings under his care.

The following suggestive facts in regard to the increase of the school population and the needs for increased accommodations are called to your attention: By an examination of the statistical tables accompanying this report, it will be seen that the principal increase in the number of pupils attending the schools during the year occurred in the schools situated in the outlying districts. The total increase in all the schools being fifteen hundred and fifteen pupils (1,515), of which number nine hundred and fifty-seven (957), over sixty-three per cent., was the increase in the

schools located in annexed territory. Some localities in this rapidly growing section are without schools, and others are inadequately supplied. This fact is most suggestive. In supplying new school buildings this section needs careful consideration, as here additional accommodations will be required in increasing degree in the future, while in some of the older portions of the city there will be a decrease in the facilities required.

In the interest of economy and instruction the small classes of fifth, sixth, seventh and eighth grade pupils maintained in some of the schools should be transferred to neighboring schools in which there is room for their accommodation, and everything provided for their instruction without additional expense to the city. In the schools in which small classes of these grades are found, if they were transferred as recommended, there would be a saving of expense in each case of an additional class-room and an additional teacher. Pupils in the higher grammar grades are large enough to attend schools at some distance from their homes, and it would be a good policy to have larger and fewer grammar schools so that the space in the rooms occupied by the pupils of the higher grades would be fully occupied.

The proper distribution of the pupils among the schools requires intelligent consideration and judicious management. This matter is not attended to in the proper way, when in the same neighborhood some of the schools are overcrowded or provided with rented rooms, while other schools, easily accessible to the children, contain class-rooms which are unoccupied.

*Northwestern Section.*

In the northwestern section of the city No. 8 Annex School is greatly overcrowded, and this will be more and more the case in this rapidly-growing locality. A primary school to the west of this point is needed for the relief of No. 8, and also for the young children who are not able to walk the long distance to Clifton.

The new building and the rented "branch," occupied by Colored School No. 9, are both overcrowded, two teachers with their classes having to occupy many of the class-rooms large enough for only one class. Under such unsanitary and unfavorable conditions good work cannot be done. When the building for a colored grammar school on Mount and Saratoga streets is occupied, it may be expected some relief will be afforded this school.

*English-German School No. 5* occupies two buildings, situated at some distance from each other, and it is desirable that the whole school should be housed in one building so that the principal could more conveniently and effectively overlook the work of his teachers and their classes.

*Colored School No. 4* is greatly in need of increased and more suitable accommodations. This has been the case for a long time, and the school has suffered on this account. In case of fire it would be very difficult to clear the building on account of the arrangement of the rooms and the insufficient means of egress. It was the intention to use the building now occupied by English-German School No. 1 for one of the departments of No. 4 Colored School when the completion of the building for the City College enabled No. 1 English German School to occupy the building now used by the college.

The discipline and instruction of the students at the City College are seriously impaired on account of the inadequate accommodations afforded by the building temporarily (?) occupied while the building for the college is being erected. The delay in providing a suitable building for the City College not only most injuriously affects that institution, but it also seriously retards the progress of the pupils attending English-German School No. 1 and Colored School No. 4.

*No. 6 Grammar School* needs enlargement. On account of the insufficient number of rooms some of the classes have to be taught in the dwelling-house, owned by the city, located on the Crook lot. The rooms in this building are not suitable for class-rooms. They are too small, and some of them are so badly lighted as to necessitate the use of gas. For the purposes of supervision by the principal, it is necessary for the classes to be taught in one building. If the main building is strong enough, it would be well to add a third story to supply the necessary number of class-rooms. This school has two sessions, while some of the neighboring schools have one session. On this account many pupils residing in the district of this school prefer to attend the schools which have one session. Some of the upper grades, for this reason, are not full. The pupils living in the district of

this school should be required to attend it. Whether we have one session or two, there should be uniformity throughout the primary and grammar schools, so that pupils living in one district would not desire to leave their own schools and overcrowd the schools of neighboring districts.

*Annex School No. 7* needs another class-room. One of the rooms is occupied by two teachers and their classes. On account of health and instruction this should be remedied.

*Annex Schools No. 4 and No. 6*, occupying the same building, need increased accommodations. In several instances it is necessary for two teachers to instruct their classes in rooms only large enough for one class. It is necessary to build a house in the vicinage for the use of one of these schools.

The building occupied by Annex School No. 5 is by no means an up-to-date building. The arrangement and sanitation of the rooms are very defective. The two small rooms on the second floor in the east end of the building, formerly constituting one class-room, but converted into two by a partition, are not suitable for the use of a class of the average size.

*Annex School No. 14* occupies a rented house which is not suitable for school purposes. The rooms are not properly arrranged.

*Northeastern Section.*

The building occupied by the Eastern Female High School needs several additional class-rooms and other important improvements. The High Schools play a most important part in our educational system, as they not only give the young ladies who attend them an education such as a woman finds necessary in any walk of life, but they also give most of those who are to serve in our schools as teachers their academic training; hence it is in the highest degree necessary for both of these reasons, especially for the latter, to supply the High Schools with everything that will conduce to their efficiency.

*English-German School No. 3* occupies three buildings, two of which, built for dwellings, are unsuitable for school purposes. In case it became necessary to clear the building quickly on account of fire it would be difficult to do so on account of the insufficient means of egress.

*English-German School No. 7* occupies two rented dwelling houses, the rooms of which are not suitable for class-rooms, on account of their small size and the lack of sufficient light and ventilation.

*No. 26 Primary School.*—The building occupied by this school is not in good sanitary condition. The lower floor is insufficiently lighted and the surroundings are very unsatisfactory.

*Primary School No. 27.*—The damp and badly-lighted rooms in the basement of the building occupied by this school are very unsuitable and they should not be used for school purposes. When the building occupied by Primary School No. 13, a short distance from this locality was built, it was expected that the overcrowded condition of No. 27 would be relieved and the rooms in the basement would be abandoned, but there are at this time several unoccupied class-rooms at No. 13, and the use of the basement is continued.

*Grammar School No. 11* needs increased accommodations. Teachers' reception rooms have to be used as class-rooms, and one of the classes is taught in the building occupied by Female Grammar School No 17. It is needless to say that such unfavorable conditions seriously impair the efficiency of the school.

*Male Colored School No. 8* is housed in three buildings, two of which, built for dwellings, are totally unfit for the use of the school. The principal cannot give his school efficient oversight while it is separated in this way, and the teachers and scholars cannot do good work in the small, badly lighted and ventilated class-rooms which they use at this time.

*No. 20 Grammar School.*—On account of the insufficiency of room in the main building it is necessary to use two rented houses in the neighborhood to accommodate some of the classes of both the male and female departments. This building should be enlarged so as to accommodate all the pupils in suitable class-rooms under one roof.

*No. 3 Primary School.*—The building is not large enough to provide seats for all the pupils belonging to the school, and several classes have to be taught in an entirely unsuitable rented dwelling near the main building. The rooms in this building are not suita-

ble for class-rooms on account of their bad arrangement and lack of sufficient light and ventilation. In case it became necessary to move the pupils quickly out of the building on account of fire or for other reasons there would be danger of loss of life, as the means of egress are very inadequate.

*Grammar and Primary School No. 9.*—Both the male and female departments of this school are kept in rented houses built for dwellings, which do not provide the schools with sufficiently large class-rooms. The rooms are also badly lighted and ventilated. They are also badly arranged, and if it became necessary to clear the building quickly on account of fire or for other reasons it would be difficult to do so on account of the insufficiency of the means of egress. Many pupils residing in the district of this school go to other schools which are provided with better accommodations.

*Colored High School.*—The building occupied by this school is not in good sanitary condition, and it does not afford the requisite facilities for the instruction of the pupils. Gas has to be used almost continually in all of the rooms on account of the insufficiency of light.

*Colored Grammar School No. 1* needs additional class-rooms. The rented dwelling used by the school is not suitable for school purposes.

*Male Colored Primary School No. 1.*—The rented dwelling occupied by this school does not afford the necessary facilities for carrying on the work of the school successfully. The class-rooms are too small; they are badly arranged, lighted and ventilated, and the means of egress are insufficient.

*No. 32 Primary School* needs additional class-rooms. Some of the classes are taught in rented rooms, which do not comfortably and suitably accommodate them.

*Colored Grammar School No. 10.*—During the year the building occupied by this school has been greatly overcrowded. In several instances it was necessary for two teachers to teach their classes in a room intended for one class. Small unsuitable rented rooms had to be secured in the neighborhood to relieve the overcrowded condition of the school.

*Annex No. 1.*—The main building not being large enough for the accommodation of all the classes, small, badly arranged, lighted and ventilated rooms in a small dwelling house near the school have to be used by some of the classes. This section is growing and it is necessary to enlarge the building sufficiently to accommodate all the pupils under one roof.

*Annex School No. 2* is very much in need of increased accommodations. Unsuitable rooms in a rented dwelling at some distance from the main building have to be used by some of the classes. If the main building were enlarged so as to provide rooms for all the classes under one roof the teachers would be able to do better work, and the principal would be able to supervise his school more conveniently and effectively.

*Annex Colored School No. 1* occupies two small buildings a short distance apart, neither of which is suitable for the use of the school, and it is necessary to supply this school with better facilities.

*Southwestern Section.*

*Grammar School No 8.*—The building is not large enough to accommodate all the classes of the school; one of the classes of the male department is taught in a rented room in the neighborhood.

*English-German School No. 6* occupies two buildings about half a mile apart. The main building needs enlargement. In the separated condition of the schools the principal cannot conveniently and effectively supervise the work of the teachers and pupils.

*Primary School No. 10.*—The building occupied by this school is not in good sanitary condition, and it should be improved or another built for the use of the school.

The building occupied by Primary School No. 22 is totally unfit in every respect for school purposes. It is located near the Mount Clare shops and the noise is frequently so great as to interfere seriously with the work of the school.

*Primary School No. 12.*—The building occupied by this school being too small to seat all the classes, several of them have to be taught in small rented dwellings near the school. These rooms are too small, dark and badly lighted, and it is necessary to make

suitable provision for the pupils occupying them. The main building is by no means an up-to-date school house. The class-rooms are small, and those especially on the first floor are not in good sanitary condition. A suitable house large enough to seat the entire school should be erected in this locality.

*Colored School No. 6.*—The building is amply large enough for the school, but the arrangement of the rooms and their unsanitary condition, especially those located on the lower floor, render it necessary to make the improvements needed, or if this cannot be done to erect another building for the use of the school.

*Colored Grammar School No. 3* is housed in an old, badly constructed, lighted and ventilated building, which is located in a very noisy neighborhood, and it is very important that the school should be provided with suitable accommodations.

*Grammar School No. 10.*—Both departments require additional class-rooms. Some of the classes are taught in small rented dwelling houses in the neighborhood which are entirely unfit for the purpose. It is recommended that the house occupied by this school be used by No. 17 Primary School, whose building is unfit for use and should be abandoned, and that a new building large enough to accommodate Grammar School No. 10 be built southeast of its present location. This part of the city has been built up to the south and east very considerably within the last few years, and as the erection of dwellings on the land yet unoccupied will continue, by carrying out this recommendation this locality will be adequately supplied with grammar school facilities for some time to come. In the meantime some of the classes of the male department now being taught in a rented dwelling should be accommodated in some of the unoccupied rooms of No. 35 Primary School.

*Grammar School No. 4.*—Neither department has room for the accommodation of its classes, and rooms for this purpose have to be rented in the neighborhood. Two of the rooms used by the female department, built for teachers' rooms, are too small for class-rooms, and adequate provision should be made for the classes occupying them, and also for the classes occupying rented rooms. There are three unoccupied furnished class-rooms in No. 29 Primary School, which should be used by some of the pupils of

this school. Were these rooms and those which could be fitted up in the third story of No. 4 Primary School made use of, the rented rooms would not be needed, and the classes occupying the small class-rooms alluded to would be provided with suitable accommodations. This arrangement would provide these classes with better rooms without any expense to the city.

The building occupied by No. 16 Grammar School needs enlargement. One of the classes of the female department has to be taught in a small room built for the use of the teachers.

*No. 33 Primary School* is so greatly overcrowded that the conditions are unfavorable to health and instruction.

*English-German School No. 2.*—The building is not large enough; in several instances two classes have to be taught in rooms large enough for only one class. The yard of this school is very small and it is desirable to purchase the small vacant lot north of the building. In case a dwelling house were built upon this lot the light of the school building would be very seriously affected.

*No. 28 Primary School.*—The class-rooms in this building are too small, they are also badly arranged, and some of those on the first floor are not well lighted and ventilated.

*Southeastern Section.*

*Grammar School No. 2.*—The building needs enlargement. Several classes of both departments have to be taught in rented rooms. A third story to the main building would supply the additional space needed. The building, Inspector Owens says, is strong enough to support a third story.

*Primary School No. 6.*—The building does not supply the children of the neighborhood suitable nor sufficient accommodations, some of the classes having to be taught in rented rooms, which, on account of their size, arrangement and unsanitary condition, are not suitable for the purpose. The lower floor of the main building is so badly lighted that gas has to be constantly used while the school is in session. A good building should be erected for the use of this school without delay.

The building occupied by No. 23 Primary School is in a very

unsanitary condition, and it is very necessary that proper steps should be taken to make the necessary improvements.

*No. 38 Male Primary School.*—The rented house used by this school is not at all suitable. The class-rooms are too small, and the building should be abandoned on account of its very unsanitary condition.

*Primary School No. 36* is kept in a rented building, and it is necessary to erect a suitable building for the use of this school.

## SUPERVISION AND PRINCIPALS.

Whenever you find a principal enterprising, on the alert, endeavoring to learn how to supervise his school intelligently and helpfully, so as to find out the weak places and to strengthen them, who is making every effort to improve himself and his school, you feel assured that such management in time will succeed, and that better and better results will be secured. Decided differences prevail among principals in this respect.

The quarterly reports of some of the principals give interesting and useful information as to the condition of their schools and the means they are using to secure improvement. But some of the reports, I must say, are made in a very perfunctory manner and deal in nothing more than generalities. The results accomplished by supervision seem to vary very much in the different schools. Principals are not equally competent and successful in accomplishing what is needed to make this work effective. This is due to the difference in the qualifications of the supervisors and in the methods pursued. As experience is acquired better results will follow. In many cases great pains are taken to ascertain existing conditions, intelligent judgment is exercised in devising plans for improvement and in having them successfully carried out by the teachers. Under such circumstances it is needless to say improvement will be secured.

The president of the College reports that the conditions existing at the College are extremely unfavorable, both for efficient instruction and satisfactory discipline. Several principals state that they have assisted their teachers in arranging their schedules so that the proper amount of time may be spent in teaching each subject.

One report has the following remarks in regard to examinations: "In past years too much time has been wasted on examinations, held at any time and as often as the teacher saw fit. Recognizing that some written work is necessary to give the pupil practice in recalling what has been learned and in arranging his knowledge in orderly sequence on paper, I have recommended that one examination only a month be held throughout the school, at one time, and that it be taken entirely from the subjects taught during that month, so that every attentive, studious pupil may have the reward of success. A monthly report, based upon the results of this examination, is sent to each parent, and the papers are given to me for inspection."

Another says: "Our grammar school teachers have all had some experience, and, as far as I can see, are using modern methods with reasonable success. The Board requires scholastic ability only. If, therefore, the Babel of a school is illumined by the reflection from a ten-dollar medal, would it not be presumption on the part of a principal to say, 'She is not qualified!'"

The following is taken from another report: "There are some teachers in the school whose work and discipline are not what they should be. I am endeavoring by suggestions and other means to help them. Should there be no or but little improvement within a reasonable time, I will call your attention to the matter more definitely."

Another report says: "Corporal punishment, suspension and expulsion are not employed in this school; neither have they been needed, so far as I have been able to see, since I became principal. During more than four years of service in the capacity of principal I have never whipped or slapped a single child, nor recommended one for suspension or expulsion. My own class—the eighth grade—I neither keep in nor demerit, and yet I doubt if there are many classes in the city, even among the white schools, more courteous and decorous. They are regular and punctual in attendance, and are making fairly good progress in their studies."

The Supervisor of Drawing states: "It has been a custom for some time for the teachers of drawing to meet once in every month for mutual benefit, when they relate any unusual experiences and help to smooth out difficulties for each other along the way.

This conference has proven to be very useful in many ways, keeping the work of the teachers along the same lines, etc. At the regular meeting held during the present week there was quite a good attendance, and much interest was shown in the work, all agreeing that the introduction of the new series of drawing books a year ago had been a great benefit and improvement. Some complaint was made about the crowded condition of some class-rooms interfering with the work, it being impossible to have much success from a drawing lesson under such conditions. We are all endeavoring to make the drawing helpful in other branches of study, and recently quite an interest has been created on the subject of "Historic Ornament" in some grammar schools by having the pupils reproduce what has been read to them upon the subject, and illustrate with examples of Egyptian design and ornament. The first grade teachers are beginning very generally to make much use of the drawing in their teaching, and with few exceptions the regular teachers all assist the drawing teachers very much in their work."

The Directress of Sewing says: "The pupils seem to be more eager this year to make something for themselves, and some mothers have taken so much interest in this branch of manual training that they are willing to supply the necessary material. The regular teachers, with few exceptions, give more attention to the discipline of their classes, and many who adversely criticised the work have been converted to its usefulness by seeing the practical results of sewing taught in the schools."

One principal says: "In giving lessons the essentials are dwelt upon. The re-enforcing one subject by association with others I have found very profitable."

Another principal says: "The principal paid daily visits to the classes, giving lessons illustrating plans of work, but leaving each teacher free to follow her own method. We report decided improvement in some classes. Answers are more thoughtful and work is now more carefully done. The classes are not equally successful. The different degrees of success are owing, I think, to the difference in the merits of the methods employed."

Professor Wehage, one of the Superintendents of Music, says: "I urged especially the use of patriotic and national airs in conjunction with the prescribed work."

Another principal says: "During the current month, the different classes have been frequently visited. I find a perceptible improvement in the preparation to hear recitations. This improvement is more evident in some classes than in others. But the necessity for this careful preparation is insisted upon by the principal, and good results are expected."

In another principal's report I find: "Besides giving lessons and advice, I have laid much stress upon the regular and prompt attendance of pupils. The care of books, etc., has been carefully inquired into. We see that the floors are kept clear of paper, and that the furniture is not abused. It has been my endeavor to inspire one line of thought in teaching, that no energy may be wasted when the pupil passes from one teacher to another."

Another says: "We are laboring under considerable disadvantage in our fifth and sixth grades, owing to the crowded condition of the class-rooms. There are four classes, averaging fifty-seven pupils in rooms with seating capacity for only fifty pupils. The teachers of these classes have assistance, but more effective work could be done if we had smaller classes and additional class-rooms."

Another principal says: "My sixth and seventh grades will not please you when you visit us. A number of the seventh grade pupils should be in the sixth grade. If I could convince the parents that this is true, and if I had a strong teacher in the sixth grade, I would be able to remedy matters at once. But it will take the sixth grade teachers years to reach this point, and until this time here will be the stumbling block in the very middle of the school, but she is trying and in the end will succeed. The seventh grade teacher will advance very few pupils in June, although she is a competent and industrious instructor. In all the other class-rooms I find really efficient teaching."

Another report says: "I notice a strong inclination lately upon the part of the teacher to get away from the text-book during the recitation of lessons, and also during the periods of teaching."

Another report has the following: "There is no doubt when the teacher abandons the book altogether and relies upon her own resources for the substance of the matter to be taught, there will be much more effective teaching done. I notice a desire for improvement—for a more thorough knowledge of the subjects

taught—beginning to show itself among my teachers. I am confident that much more intelligent teaching would be done if the teacher had a thorough and comprehensive knowledge of the matter she is endeavoring to convey to her pupils. There is a wakening up noticeable, and although the leaven may be small in quantity, yet it will surely permeate the whole loaf eventually. I have looked to some extent into the condition of the reading in all the classes of the school, and I must admit that the pupils are not as proficient in reading intelligently, as I interpret the meaning of the term, as they should be. Intelligent reading should convey the substance and meaning to the listener as well as to the one who reads. Therefore, proper inflection and modulation of the voice should be used, so that not only the meaning is made apparent, but that it is pleasant and agreeable to hear the voice of the reader. I do not mean elocution, as elocutionists define the term, but I do mean, good and intelligent reading should be delivered in a pleasant tone, sufficiently audible to every one in the room, and conveying the full meaning of the substance read to the listener as well as to the reader. When I question many of those whom I call poor readers, I find they know a great deal more than I would expect, judging only from the manner of the rendition. But I consider conveying the meaning to others just as important as understanding it one's self."

The principal of the Eastern Female High School reports that his school is in need of properly equipped laboratories for instructing the classes in science.

One matter receiving careful consideration at this time is the proper amount of time to be given to each study. In many classes, especially of the lower grammar grades, and of the primary schools, too much time is given to arithmetic. In some of these classes from thirty to fifty per cent. of the time is given to this study. While this is one of the most important studies in the course, and the pupils should be well trained in arithmetic, yet the time for other branches should not be shortened by an undue extension of the period devoted to instruction in arithmetic.

It is not an easy thing to learn how to supervise helpfully and effectively. It requires a knowledge of the theory and practice of education, and the ability to overlook intelligently the work of others, so as to have it done in accordance with sound educational

practice in such a way as to secure good results. A principal should know the condition of all his classes in every line of work carried on. He should know the qualities of his teachers, the methods they pursue, and the success they achieve, and the problem he is always endeavoring to solve is: In what way under known existing conditions he may improve his teaching force and work his school up to a higher state of efficiency and usefulness.

The reports received from principals in regard to supervision give evidence of a commendable desire on the part of both principals and teachers to carry out the requirements of the Board in the right spirit, and to promote the efficiency of their schools. The principals have manifested a disposition to perform the work of supervision in such a way as not to cause the teachers unnecessary uneasiness, but to advise, help and instruct them, so that they may be able to perform their duties more satisfactorily. Many matters of importance affecting the interests of the schools, coming to the attention of principals, have been mentioned in these reports, and the means the principals are using, or intend to use, for the purpose of improvement, have in some of the reports been briefly outlined. Many express a determination to increase the usefulness of the grade meetings, to get their teachers to recognize their deficiencies as to methods of teaching, disciplining their classes, lack of academic preparation and professional knowledge; to assist them in arranging their programmes so that each subject may have its proportionate share of time—no more, no less; to do all they are able to assist weak teachers, and after the most careful consideration, when admonition and help fail to get teachers whose work is not up to a fair standard to improve, to call attention to the fact for the consideration of the Board. The last mentioned is a most difficult and disagreeable duty, requiring time, most excellent judgment and the utmost fairness to both the teacher and the school, but the important interest involved requires those charged with its performance to do their duty honestly and fearlessly, giving the teachers the benefit of all reasonable doubt. We have endeavored to make the teachers understand that there is no intention on the part of the Board to place them in an uncomfortable position or to treat them unkindly. It would

be very injurious and demoralizing to the schools for the teachers to imagine that their positions are in danger. Our schools have many excellent features, and the teachers as a body are doing very good work. Their adverse critics spoke of the entire system from imperfect knowledge of a few schools, which did not represent the typical schools of the system. The system has decided defects. Where and when may one be found which has not? Many of its defects are due to a lack of facilities, which a good system must have in order to prepare incoming teachers for their work, as well as to improve those already in the service. The schools in this respect demand the intelligent and immediate attention of the Board and others connected with this management.

In visiting one of the female grammar schools I find a first assistant's room furnished with some excellent devices for teaching, made without expense by the teacher and scholars. This class is taught botany, not from books, but by excursions to the country and by the study of the plants themselves. Botany is not taught alone, for oral and written language and drawing are most helpfully and usefully employed in prosecuting the instruction in botany.

The first assistant's room in one of the male grammar schools is supplied with a relief map of Europe, about three feet by four, made by the boys of the school. In making the map these boys were benefited, and it serves an excellent purpose in the work of instructing the class. The principal of this school and his first assistant have also arranged and equipped a gymnasium, in which the boys of the school are systematically exercised under the control and guidance of the first assistant.

In another male grammar school the principal gives his boys systematic instruction in the manual work of making various geometrical forms out of stiff paper or card board. In making these forms the hand, eye and mind are most beneficially trained at the same time. These forms are also drawn by the pupils, both in freehand and to scale, the names of their parts are learned, their surfaces and volumes are estimated, etc. The geometrical forms, made in this school, are used by the special teachers of drawing

as models when they visit other schools. Paper work of this kind is being done more and more in all the schools. Many of the teachers not only give their own pupils the benefit of such instruction, but they are most helpful, especially when the opportunity is offered at grade meetings in diffusing good ideas and methods throughout the system.

With the increased attendance secured by the order of the Board, requiring the schools to close at noon on the first Friday of the month, to enable the teachers to be present, the grade meetings, which have already done so much to strengthen the teaching force of the schools, will be very much more effective in the improvement of the teachers and the schools. How to organize and conduct these meetings so as to make them of the most service to the schools, is a problem which we have been endeavoring for a long time to solve. Some of these meetings have been held for the last twenty years or more, and many of the teachers, through their instrumentality, have acquired valuable experience; but still it is a question for discussion, not only with us, but among all educational workers, how such meetings should be conducted so as to secure the best results. Earnest and zealous principals recognize the worth of these meetings, and not only attend them regularly and use their best efforts to increase their usefulness, but urge their teachers to follow their example. I make it my business to be present at as many of these meetings as possible, advise with the chairmen, take an active part in the proceedings and assist in whatever other way I am able.

I have desired for a long time that the Board should not only sanction these meetings and give them an official status, but also require all the teachers to attend them. Now that this has been done it only remains for the teaching force, assisted by the principals and others, to work these meetings up to a high state of usefulness. On the first Friday in December, by direction of the committees on these schools, I attended and presided over the meeting composed of the teachers of the higher schools. This meeting was well attended, only one person being absent, to my knowledge. As this was the first meeting of the kind, the deliberations were confined to considering the best plan to follow in

carrying on the work. A subject was selected for discussion at the next meeting, when it was proposed to map out the lines upon which the future work of the section would be conducted.

It has been my endeavor to enlist the sympathy and co-operation of all persons connected with the schools in the performance of this valuable work. As the time thus used is a portion of the twenty-five hours per week the schools are required to be in session, all of us should feel that the Board desires it to be used in such a way as to promote the good of the schools, not in idle talk about speculative school questions, but so as to strengthen and invigorate the teaching force, better the organization and the conduct of the schools so that they may become more serviceable to the community.

In this connection I desire to thank the chairmen for their zealous and laborious efforts to improve the manner of conducting these meetings, and also many of the principals and earnest, thoughtful teachers, who have so faithfully used their time and best efforts in helping to improve the character and extend the usefulness of this work.

## TEXT-BOOKS.

The improved list of text-books adpoted for use in the primary, grammar and high schools will be productive of marked improvement in some of the departments of instruction, especially in those of literature, reading, history, geography and elementary science. Books of various kinds, suitable for supplementary reading and for instruction in literature, history and science, have been needed in the schools for a long time, and I feel confident that the list, so well selected by the committee on text-books, will enable the teachers to secure much more success in these lines of work. The reference books for the use of teachers will be of great service to the schools, in adding to the professional knowledge of the teachers, and bringing about better methods of instruction. At the beginning of the scholastic year, in September, the delay experienced in most of the schools in getting books and other material from the contractors caused inconvenience, but as many of the principals state in their reports, this has not been found to be an unmixed evil, for as many of the teachers have been compelled to

depend more upon themselves and less upon the text-books in conducting recitations and in assigning lessons topically for study, they have become more self-reliant and thoughtful, so that in fact the schools have in some respects on this account been really benefited. On account of the large supply of old material on hand when the schools opened in September, the best effects to be realized from the introduction of the new books recently placed upon the list have not been fully felt, but as these books gradually take the place of the old ones the work of improvement will proceed. In all the classes, even when the new books can not be given to a class, a desk-copy has been given to the teacher, whose attention has been called to the fact that while the pupils may profitably use the old books, yet the methods, order of treatment, and the matter presented in the new books are to be given due consideration while carrying on their work. This has been insisted upon especially in regard to language, geography and geometry. Vertical penmanship in most of the schools is being well taught with excellent results. The handwriting of the pupils has been greatly improved. The teachers deserve commendation for the manner in which they have undertaken and carried on this work. In the majority of the grammar schools vertical penmanship was introduced into all the grammar grades at once, while in others it was used only in the fourth grade. It may be stated that the writing in the former schools is in much more satisfactory condition than it is in the schools in which it was begun in the fourth grade only. Of the four systems placed upon the list for use in the schools, it seems to be the general opinion among the teachers that the "natural system" has secured the best results. It is really remarkable to notice how quickly most of the teachers have been able, in many cases without the aid of copy-books, but simply by means of script forms written upon the blackboards, to meet with the success they have achieved. This system may be properly called the "natural system," for the work of the pupils shows that it is a method most easily taught and well adapted to the needs of the pupils.

### DEPARTMENTAL INSTRUCTION.

Departmental instruction prevails generally in the high schools and to a limited extent in the grammar schools. Reading is taught

in No. 20 Female Grammar School by the teachers best qualified to teach this subject. The principal of the school states that since the commencement of this plan, the reading of the pupils has been steadily improving, and my own observation enables me to confirm the truth of this statement.

This plan of instruction has been adopted generally throughout the upper grades of English-German School No. 7. Music in a great many of the schools is taught by teachers selected for this purpose on account of their being well qualified to give instruction in this branch of study.

In some other schools this plan partially prevails, and it may be said that it is growing into favor and working its way gradually into the schools with satisfactory results. The conditions under which the teaching is carried on in the many schools of the city are so different, and individual preferences and aptitudes are so decided, that any legislation upon this matter is not considered desirable. I have always encouraged the principals of schools in which the conditions were favorable to introduce such features of this plan of instruction as they think will improve the teaching in their school and increase its efficiency.

There is much to be said in favor of specialization by teachers in the grammar grades. Under this plan each teacher is enabled to concentrate upon a single subject,—the one most congenial to her tasks and best suited to her attainments,—the time and attention otherwise devoted to the preparation of several subjects. She, in consequence, can thus become something of a specialist. She comes to the classroom more thoroughly prepared for her work, both as to subject matter and methods of teaching, which must give increased efficiency to her instruction and success in her work. Unity in the presentation and treatment of the same subject is secured in this way throughout the school, and in consequence there is much less loss of time and effort.

The objections urged to this plan are that the discipline is impaired, the personal influence of the teacher is weakened, the correlation of subjects endangered, and that undue prominence is given by teachers to their special branches. It must be admitted that these objections are entitled to more or less consideration, yet

after the advantages and disadvantages of both plans have been considered the departmental plan under ordinarily favorable conditions seems to be decidedly preferable. It affords the language teacher, for instance, the opportunity of becoming a skillful teacher of language, so as to be able to conduct the instruction in this branch with cumulative improvement, as the pupils advance from grade to grade, and to see that the work is carried on in different grades with unity of purpose without loss of time or energy. It prevents teachers also from giving extra time and attention to favorite studies while others are neglected. In my visits to the schools I frequently find classes in which certain subjects do not get their fair share of time and attention. This is especially the case in regard to reading, oral instruction, the recitation of selections, declamation and composition. Under the departmental plan each subject would receive full consideration, and the instruction in each branch would be given by the teacher best adapted to the work, who would have the opportunity of making herself a specialist in this branch so as to be able to teach it to the best advantage. Such subjects as literature, geography, history and elementary science require a great deal of study and preparation on the part of the teacher, and I am quite sure they will never receive adequate treatment until each teacher has the opportunity of devoting all her energies to one branch, or to two or more closely related branches.

## THE MERIT SYSTEM.

In response to a request of the Committee on the Civil Service Rules the following changes and amendments in Civil Service Rules were recommended: It was suggested that the rules as they stood at that time should be carried out in every particular until the changes for their improvement could be made, gotten into working order, and replace the portions of the rules which they abolished or altered.

If in any branch of the public service the merit system should prevail it should be in the department of public education. Not only for the purpose of placing the schools beyond the blighting influence of spoilsmen, but also for the encouragement and im-

provement of the teaching force itself, which really determines the character of the schools. The plan proposed, it seems to me, meets all reasonable requirements.

First. It is perfectly impartial, giving every qualified applicant an equal chance for appointment, and every primary and grammar school teacher in the employ of the Board an equal chance for promotion.

Second. It is just to the school system and to the people, as it selects none for appointment or promotion but qualified persons, and stimulates and encourages the teachers to faithful and efficient service and to study their profession so as to fit themselves for advancement.

Third. The plan is simple, easily understood and operated.

When a new school is organized, instead of selecting the teachers to fill the higher positions, as provided for in the Civil Service Rules as they stand at this time, the selections should be made in the following manner: When the semi-annual examinations of applicants for certificate to teach are held in May and November, allow teachers with the requisite number of years of successful service to qualify themselves for promotion to the various positions in the schools, a suitable examination being set for each position—principal of a grammar school, first assistant of a grammar school, second assistant of a grammar school, principal of a primary school, teacher in charge of lowest primary grade, principal of a colored primary school, first assistant of a colored primary school, vice-principal of an English-German school, first assistant of an English-German school, and teacher of German in an English-German school—eligible lists should be made for these various positions, each list containing the names of those who passed the examinations for the various positions, the names on each list being arranged in the order of merit as ascertained by the examination. Then, when it becomes necessary to organize a new school, the principal and other teachers ranking above the position of third assistant should be selected from those whose names stand first upon the respective lists, the one whose name stands highest receiving the first appointment, and so on.

This method would give all the teachers in the schools, primary

and grammar, the same opportunity for promotion to desirable positions in new schools, the exercise of favoritism would be prevented, the selection would be made on the basis of merit alone, and in the best interest of the schools, the community and the teachers.

The examinations for promotion, given for the purpose of arranging these lists, should not consist of too many and too difficult subjects, and a knowledge of school methods and successful service should be given a great deal of consideration.

The Civil Service Rules, as they stand now, should be faithfully enforced until lists such as I have referred to above could be prepared by means of examinations for promotion, not only to select teachers for promotion to the higher positions in newly organized schools, but also to provide for the promotion of teachers throughout the primary and grammar schools.

Let the teachers now in the employ of the Board be considered eligible to the positions they hold, and graduates with an average of eighty-five or more, eighty is too low, and those who pass the examinations in May and November, with an equivalent average, be eligible to the lowest position in a primary school, to be appointed to said lowest position in the order of merit; and let *promotions* to all higher positions be made from the lists I have described; the eligible, whose name stands highest upon the list, to be selected first in each instance.

When it is found that these lists contain a sufficient number of names to meet the requirements of the service, they should be used not only for the selection of teachers to fill the higher positions in newly-organized schools, but they should be employed to appoint and promote teachers throughout the primary and grammar schools, and all other rules inconsistent with them should be declared repealed.

This plan is simple, easily understood and worked. If it were adopted all teachers would stand exactly the same chance for appointment and promotion, experience and successful service would be given proper consideration, and the examinations, given to enable properly-qualified persons to secure places upon the various lists, would be stimulative to the teaching force and greatly increase its efficiency.

The amendment to the Civil Service Rules, which has been in force since November 23, providing that when a vacancy occurs in the lowest position in a grammar school it shall be filled by the transfer of a teacher, of at least two years' experience, from a primary school, or by the transfer of a teacher from some other grammar school, is not in harmony with the merit system, as it allows, in the case of promotions, the very practice the Civil Service Rules were intended to abolish, namely, selection by the local committee, and not by a method which ascertains the merit of all the primary teachers desiring such promotion, and awarding the promotion to the most meritorious.

Some of the very best teachers in our schools, in all respects, are to be found in the primary schools, who are in every way worthy of promotion to higher positions; but in selecting teachers for promotion from these schools, no plan in accordance with what may truly be called a merit system should be employed but that which regulates their promotions in accordance with merit. It is in the highest interests of a school system to recognize and to reward merit. It encourages and brings forward the best teachers—it is most stimulative and helpful to all. Would it not be in accordance with the spirit and intention of these rules to make the selections for promotions, in all cases, by some means which would ascertain the merit of such teachers, and promote them in the order of their merit? No other plan will accomplish the best results or secure for our schools the best available service.

## LANGUAGE.

In my recent visits to the schools, particular attention has been given to the methods of instruction and the success secured in teaching language. It may be confidently said that the instruction in this branch of study is better done than heretofore, and that the methods employed are daily improving. This instruction is no longer confined to a mere repetition of the text-book, but intelligent and successful steps are being taken to habituate the pupils to speak and to write correctly. In this line of work, especial stress is laid upon the proper teaching of reading and to developing a taste for valuable and wholesome literature. The study of literature must

not be deferred until the pupil reaches the high school, but each teacher under whose care the child comes must do something in this line of work. Memorizing and reciting select passages of prose and poetry, taken from the best authors, plays an important part in language teaching, as it is carried on in the schools. Declamation is practiced by the pupils of the higher grades.

Unless this subject is taught so as to secure improvement in the use of oral and written speech, and in cultivating a taste for good reading, increasing gradually as the pupils advance from grade to grade, the instruction is not properly pursued. For the purpose of ascertaining the condition of the classes in written language, the following method among others has been used: A written request is sent to each teacher of the school visited to get her pupils to write a composition in twenty minutes upon a subject named by myself. The teachers are requested not to make any comments upon the subject. At the expiration of twenty minutes the papers are collected by the teachers in the different rooms and sent to the principal. The papers are then looked over by the principal and myself, the condition of each class noted, and such advice given to the teachers as we consider necessary and helpful. The majority of schools examined in this way give evidence of marked improvement.

Grammar, so far as it can be made serviceable in securing the use of good language, is taught along with the daily exercises in the use of oral and written speech. Its *use* is strongly recommended. Errors are judiciously pointed out and in explaining them the grammar is consulted. Lessons in grammar are given for study and recitation only for the purpose of helping to secure correct speech and for their disciplinary value in mental training, but the time given to the study of grammar is not misused in simply teaching parsing and memorizing text without any power of application.

Dr. Steiner has kindly furnished each of the schools with a copy of the Finding List of the Pratt Library, and the teachers of the various grades have been requested to give their pupils a list of such books as they should read. A committee of teachers is preparing a list of the most suitable books of this kind to be placed in the hands of all the teachers. Co-operative efforts on the part of

the schools and the library will be of material service in cultivating a taste for good reading and in lessening the baneful habit among the young of reading trashy and demoralizing literature.

## GEOGRAPHY.

Geography should be one of the most useful and attractive subjects taught in the schools. Geikie makes the following statement concerning this subject: "The elevation of geography to the place which it ought to hold in the school curriculum appears to me a matter of vital moment; first, from the value of the study as a branch of knowledge, and secondly, because it offers a cure for what I conceive to be a radical defect in our educational method; namely, the want of any effective discipline in habits of observation. It may be begun on the very threshold of school life, and may be pursued in ever increasing fullness of detail and breadth of view up to the last of that time. No subject can for a moment be compared with it in this respect. It serves as a common ground on which the claims of literature, history and science may be reconciled."

If the departmental plan prevailed in the schools, and the teacher assigned to geography and science had a room furnished with everything necessary for first-class work—maps, the best books bearing upon her work, a lantern with suitable slides, globes, moulding boards, cabinets, etc.—I am quite sure that geography and elementary science would be taught with immensely better results. Having these two kindred subjects to teach, and the necessary facilities, the teacher would be enabled to prepare herself so as to teach them in the most successful and effective manner.

The value of geography, as a means of intellectual training, and as one of the most enriching subjects in the course, has never been sufficiently recognized in the programmes of primary, grammar, high schools and colleges. Many of the teachers do excellent work when we consider the difficulties under which they labor, but to get the best results we must supply the schools with the necessary appliances and provide more adequate means for training those intending to teach, and for helping those already in the schools.

## NATURE STUDY.

Comenius says that "The foundation of all true learning consists in representing clearly to the senses sensible objects so that they can be apprehended clearly." All educational writers agree that the mere repetition of words taken from the text-books does not constitute education, but that rational education must be based upon the intelligent observation and study of things—the main purpose being to strengthen and train the mental faculties. The correct method of education results not only in the acquisition of knowledge, but in what is considered of vastly more importance, in training and capacitating the mind and fitting it for further acquisition. In examining the courses of study pursued in the best schools of this and foreign countries, one is impressed by the great stress laid upon those branches of study which are taught so as to develop the intellectual powers by means of what may be called laboratory methods; that is, learning through observation and doing. So far as I am able to say instruction in elementary science has not been successfully established in any of the schools of this country. The reason of this is that it is very difficult to secure teachers thoroughly qualified to do this work. It would be a most difficult matter under the very best conditions to arrange and carry on successfully a course of elementary science through the eight grades constituting the primary and grammar schools. The teachers must not only have the requisite knowledge of the subjects to be taught, but they must also be able to select what is suitable, arrange it in an orderly progressive manner, and pursue the work by methods best adapted to very young pupils.

When teachers become capable of teaching elementary science successfully their pupils will not only be taught to observe and to judge about scientific facts, but the teacher will at the same time acquire the scientific method of teaching, and every study in the course will be taught by correct methods and with better results. Our teachers have been endeavoring to introduce elementary science into the schools with, it is hoped, some degree of success, but there are obstacles in the way which cannot be overcome until a great deal has been done by others connected with the

school system—the School Board and the City Council. Most of our teachers receive their academic training in the Female High Schools, neither of which has the necessary facilities for instruction in science by the proper methods, and for the good of the lower schools, if for no other reason it is highly important that the girls attending the high schools should be properly provided for in this and in some other important respects. For the teachers already in the schools Saturday classes should be established under teachers especially trained for this work.

If we had a training school for teachers, which in a term of two years could prepare for successful teaching graduates of good high schools, or others of equal scholastic attainments, in time our schools would be immensely benefited in this and in many other important respects.

### ONE SESSION IN INCLEMENT WEATHER.

The rules of the Board direct when the weather is too inclement for the pupils to be dismissed at noon, that there shall be one session, the primary schools closing at one o'clock and the grammar schools at two. The result of this arrangement is, during inclement weather, especially in the winter and fall, when there are so many sudden and unexpected changes of weather, that the children, parents and teachers are frequently kept in a state of suspense and anxiety as to whether there will be one or two sessions. This condition has a bad effect, mental and physical, upon the children and is detrimental to the work of the schools.

When one session is given under these circumstances very little is accomplished during the portion of the day following twelve o'clock, as the minds of the children are unsteadied, and, habituated to take their meals at about one o'clock, they are not in proper condition, either of body or mind, to be engaged in the exercises of the school. These exercises must be rearranged also to meet the requirements occasioned by a decrease in the time for teaching.

The teachers also accustomed to take dinner at the noon recess are not in good condition for their afternoon work. Taking meals at regular times is essential to bodily and mental vigor. My own

experience in this matter induces me to think that it would be best not to have one session in inclement weather. When it is too stormy at noon to dismiss the pupils, of course they should be permitted to remain in the building until an opportunity offered for them to return to their homes. In the afternoon, if the weather permitted, the pupils would return, otherwise they would not. Frequently when one session is ordered at noon the weather is good at half-past one. The plan proposed would not lessen the opportunities of the pupils for instruction, and it would be decidedly in the interests of health.

Respectfully submitted.

HENRY A. WISE, *Superintendent.*

# TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

## TABLE A.

Statement Showing the Number of Male and Female Teachers and the Number of Pupils on Roll December, 1897, the Average Number of Pupils on Roll During the Year, the Average Attendance for the Year, the Percentage of Attendance for the Year, and the Number in School During the Year.

| Schools. | Teachers. | | Number of Pupils. | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Males. | Females. | On Roll December, 1897. | Average Roll for the Year. | Average Attendance for the Year. | Percentage of Attendance. | Whole Number in School During Year. | In School During the Year Excluding Duplicate Enrollment. |
| Baltimore City College. | 16 | .... | 670 | 654 | 617 | 94 | 1,031 | 713 |
| East. Fem. High School | 1 | 12 | 423 | 409 | 378 | 93 | 606 | 430 |
| West. Fem. High School | 1 | 15 | 670 | 626 | 573 | 92 | 960 | 644 |
| Colored High School... | 1 | 5 | 161 | 142 | 132 | 93 | 199 | 147 |
| | 19 | 32 | 1,924 | 1,831 | 1,700 | 92 | 2,796 | 1,934 |
| Balto. Polytechnic Inst. | 20 | ..... | 554 | 503 | 469 | 93 | 925 | 834 |
| Col'd Polytechnic Inst. | 7 | ..... | 120 | 96 | 86 | 90 | 151 | 88 |
| | 27 | ..... | 674 | 599 | 555 | 93 | 1,076 | 922 |
| Male Grammar No. 1.. | 2 | 6 | 324 | 323 | 291 | 90 | 480 | 373 |
| " " " 2.. | 2 | 11 | 472 | 469 | 407 | 87 | 666 | 520 |
| " " " 3.. | 2 | 3 | 173 | 153 | 135 | 88 | 255 | 167 |
| " " " 4.. | 2 | 8 | 371 | 353 | 313 | 89 | 525 | 392 |
| " " " 5.. | 2 | 6 | 286 | 268 | 233 | 87 | 415 | 315 |
| " " " 6.. | 2 | 8 | 307 | 343 | 303 | 88 | 506 | 400 |
| " " " 7.. | 2 | 9 | 422 | 405 | 366 | 90 | 589 | 430 |
| " " " 8.. | 2 | 9 | 452 | 429 | 372 | 87 | 624 | 472 |
| " G. and P. " 9.. | 1 | 4 | 124 | 135 | 99 | 73 | 203 | 189 |
| " Grammar. " 10.. | 2 | 11 | 478 | 455 | 409 | 90 | 645 | 466 |
| " " " 11.. | 2 | 8 | 366 | 338 | 310 | 92 | 492 | 344 |
| " " " 12.. | 2 | 8 | 367 | 347 | 325 | 93 | 523 | 385 |
| " " " 13.. | 1 | 4 | 179 | 176 | 149 | 85 | 245 | 180 |
| " " " 15.. | 2 | 11 | 463 | 431 | 391 | 91 | 626 | 473 |
| " " " 16.. | 1 | 10 | 388 | 372 | 310 | 83 | 509 | 499 |
| " " " 17.. | 2 | 8 | 351 | 343 | 307 | 90 | 472 | 374 |
| " " " 18.. | 2 | 6 | 311 | 293 | 264 | 90 | 392 | 305 |
| " " " 19.. | 1 | 10 | 373 | 372 | 344 | 93 | 552 | 445 |
| " " " 20.. | 2 | 14 | 605 | 582 | 500 | 86 | 846 | 666 |
| " " " 21.. | 2 | 8 | 372 | 349 | 315 | 90 | 515 | 383 |
| " " " 22.. | 1 | 6 | 214 | 216 | 191 | 89 | 311 | 251 |
| Totals..... | 37 | 168 | 7,398 | 7,152 | 6,334 | 89 | 10,391 | 8,029 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE A—Continued.

| SCHOOLS. | TEACHERS. | | NUMBER OF PUPILS. | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Males. | Females. | On Roll December, 1897. | Average Roll for the Year. | Average Attendance for the Year. | Percentage of Attendance. | Whole Number in School During Year. | In School During the Year Excluding Duplicate Enrollment. |
| Female Grammar No. 1. | | 9 | 333 | 346 | 292 | 82 | 498 | 414 |
| " " " 2. | | 13 | 478 | 443 | 378 | 85 | 658 | 489 |
| " " " 3. | | 5 | 145 | 146 | 126 | 86 | 232 | 167 |
| " " " 4. | | 9 | 309 | 305 | 274 | 90 | 440 | 324 |
| " " " 5. | | 8 | 282 | 276 | 234 | 84 | 387 | 296 |
| " " " 6. | | 12 | 438 | 445 | 393 | 89 | 623 | 498 |
| " " " 7. | | 12 | 438 | 441 | 388 | 88 | 619 | 476 |
| " " " 8. | | 12 | 461 | 428 | 381 | 90 | 635 | 492 |
| " G. and P. " 9. | | 5 | 132 | 140 | 103 | 74 | 193 | 184 |
| " Grammar " 10. | | 13 | 412 | 396 | 361 | 91 | 601 | 455 |
| " " " 11. | | 11 | 384 | 386 | 333 | 87 | 536 | 422 |
| " " " 12. | | 10 | 379 | 346 | 305 | 88 | 525 | 364 |
| " " " 13. | | 9 | 283 | 277 | 242 | 87 | 392 | 310 |
| " " " 15. | | 15 | 583 | 579 | 519 | 90 | 822 | 639 |
| " " " 16. | | 11 | 394 | 388 | 309 | 80 | 539 | 527 |
| " " " 17. | | 9 | 317 | 290 | 261 | 90 | 402 | 292 |
| " " " 18. | | 10 | 346 | 336 | 291 | 87 | 476 | 375 |
| " " " 19. | | 12 | 443 | 472 | 421 | 90 | 686 | 560 |
| " " " 20. | | 19 | 751 | 711 | 600 | 85 | 975 | 751 |
| " " " 21. | | 11 | 440 | 418 | 339 | 81 | 600 | 458 |
| Totals | | 215 | 7,748 | 7,569 | 6,550 | 87 | 10,839 | 8,493 |
| English-German No. 1. | 2 | 12 | 374 | 411 | 362 | 88 | 560 | 521 |
| " " " 2. | 2 | 27 | 1,063 | 1,032 | 974 | 94 | 1,320 | 1,256 |
| " " " 3. | 5 | 36 | 1,706 | 1,665 | 1,489 | 90 | 2,202 | 2,093 |
| " " " 4. | 3 | 30 | 1,391 | 1,362 | 1,203 | 88 | 1,726 | 1,646 |
| " " " 5. | 3 | 25 | 1,091 | 1,058 | 961 | 91 | 1,375 | 1,281 |
| " " " 6. | 5 | 23 | 1,107 | 1,041 | 938 | 90 | 1,379 | 1,318 |
| " " " 7. | 2 | 9 | 411 | 368 | 323 | 88 | 501 | 455 |
| Totals | 22 | 162 | 7,143 | 6,937 | 6,250 | 90 | 9,063 | 8,570 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE A—Continued.

| SCHOOLS. | TEACHERS. | | NUMBER OF PUPILS. | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Males. | Females. | On Roll December, 1897. | Average Roll for the Year. | Average Attendance for the Year. | Percentage of Attendance. | Whole Number in School During Year. | In School During the Year Excluding Duplicate Enrollment. |
| Male Primary No. 1 | | 7 | 267 | 257 | 214 | 84 | 424 | 368 |
| " " " 2 | | 6 | 230 | 211 | 179 | 85 | 338 | 325 |
| " " " 3 | | 11 | 429 | 406 | 362 | 89 | 592 | 561 |
| " " " 4 | | 7 | 251 | 235 | 213 | 91 | 377 | 346 |
| " " " 5 | | 12 | 421 | 403 | 342 | 85 | 578 | 532 |
| " " " 6 | | 11 | 429 | 414 | 368 | 89 | 564 | 549 |
| " " " 7 | | 5 | 191 | 190 | 150 | 79 | 297 | 269 |
| " " " 8 | | 7 | 244 | 240 | 196 | 82 | 336 | 306 |
| " " " 10 | | 4 | 170 | 187 | 149 | 80 | 277 | 260 |
| " " " 11 | | 15 | 482 | 558 | 481 | 86 | 846 | 788 |
| " " " 12 | | 10 | 361 | 354 | 294 | 83 | 521 | 490 |
| " " " 13 | | 6 | 205 | 195 | 151 | 77 | 269 | 245 |
| " " " 14 | | 9 | 264 | 293 | 268 | 91 | 431 | 407 |
| " " " 15 | | 10 | 350 | 354 | 313 | 88 | 522 | 488 |
| " " " 16 | | 7 | 242 | 235 | 191 | 81 | 357 | 340 |
| " " " 17 | | 8 | 227 | 232 | 196 | 84 | 330 | 311 |
| " " " 18 | | 6 | 209 | 215 | 189 | 88 | 316 | 293 |
| " " " 19 | | 4 | 140 | 136 | 118 | 87 | 204 | 193 |
| " " " 20 | | 22 | 883 | 855 | 697 | 82 | 1,153 | 1,066 |
| " " " 21 | | 8 | 263 | 279 | 225 | 81 | 427 | 405 |
| " " " 22 | | 8 | 300 | 295 | 255 | 86 | 465 | 430 |
| " " " 23 | | 10 | 311 | 331 | 279 | 84 | 461 | 436 |
| " " " 24 | | 8 | 302 | 289 | 279 | 96 | 385 | 372 |
| " " " 25 | | 9 | 358 | 318 | 273 | 86 | 460 | 438 |
| " " " 26 | | 6 | 201 | 206 | 173 | 84 | 307 | 280 |
| " " " 27 | | 9 | 305 | 305 | 255 | 83 | 417 | 390 |
| " " " 28 | | 9 | 301 | 301 | 266 | 89 | 422 | 396 |
| " " " 29 | | 5 | 178 | 181 | 156 | 86 | 264 | 254 |
| " " " 30 | | 14 | 577 | 561 | 462 | 82 | 843 | 753 |
| " " " 31 | | 5 | 153 | 156 | 127 | 81 | 247 | 224 |
| " " " 32 | | 9 | 281 | 286 | 240 | 84 | 424 | 394 |
| " " " 33 | | 10 | 320 | 314 | 278 | 89 | 455 | 445 |
| " " " 34 | | 6 | 250 | 214 | 172 | 80 | 336 | 262 |
| " " " 35 | | 7 | 229 | 231 | 203 | 88 | 309 | 290 |
| " " " 36 | | 5 | 217 | 204 | 173 | 85 | 279 | 256 |
| " " " 37 | | 6 | 243 | 238 | 179 | 75 | 357 | 308 |
| " " " 38 | | 8 | 268 | 283 | 243 | 86 | 389 | 381 |
| " " " 39 | | 4 | 180 | 176 | 156 | 89 | 191 | 54 |
| Totals | | 313 | 11,232 | 11,138 | 9,465 | 85 | 16,170 | 14,905 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE A—Continued.

| SCHOOLS. | TEACHERS. | | NUMBER OF PUPILS. | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Males. | Females. | On Roll December, 1897. | Average Roll for the Year. | Average Attendance for the Year. | Percentage of Attendance. | Whole Number in School During Year. | In School During the Year Excluding Duplicate Enrollment. |
| Female Primary No. 1 | | 8 | 288 | 278 | 213 | 77 | 439 | 394 |
| " " " 2 | | 8 | 253 | 257 | 215 | 84 | 373 | 359 |
| " " " 3 | | 12 | 506 | 483 | 382 | 79 | 653 | 636 |
| " " " 4 | | 7 | 263 | 254 | 216 | 85 | 388 | 356 |
| " " " 5 | | 13 | 428 | 441 | 353 | 81 | 639 | 593 |
| " " " 6 | | 11 | 430 | 423 | 360 | 85 | 578 | 558 |
| " " " 7 | | 6 | 225 | 200 | 157 | 73 | 308 | 273 |
| " " " 8 | | 5 | 189 | 179 | 143 | 79 | 277 | 256 |
| " " " 10 | | 5 | 201 | 206 | 161 | 78 | 303 | 280 |
| " " " 11 | | 14 | 518 | 538 | 448 | 83 | 782 | 731 |
| " " " 12 | | 9 | 306 | 320 | 275 | 86 | 452 | 427 |
| " " " 13 | | 6 | 214 | 208 | 167 | 80 | 285 | 270 |
| " " " 14 | | 6 | 214 | 265 | 232 | 92 | 373 | 366 |
| " " " 15 | | 9 | 366 | 355 | 296 | 84 | 546 | 497 |
| " " " 16 | | 6 | 242 | 224 | 175 | 78 | 328 | 308 |
| " " " 17 | | 8 | 292 | 293 | 237 | 80 | 403 | 380 |
| " " " 18 | | 6 | 198 | 215 | 173 | 81 | 310 | 287 |
| " " " 19 | | 4 | 135 | 134 | 121 | 90 | 209 | 190 |
| " " " 20 | | 19 | 720 | 703 | 582 | 83 | 1,004 | 928 |
| " " " 21 | | 8 | 235 | 249 | 209 | 84 | 380 | 351 |
| " " " 22 | | 9 | 286 | 306 | 251 | 82 | 464 | 429 |
| " " " 23 | | 10 | 344 | 336 | 288 | 86 | 481 | 447 |
| " " " 24 | | 8 | 318 | 293 | 253 | 87 | 399 | 384 |
| " " " 25 | | 9 | 291 | 302 | 235 | 78 | 412 | 400 |
| " " " 26 | | 5 | 195 | 187 | 157 | 84 | 271 | 252 |
| " " " 27 | | 9 | 303 | 305 | 258 | 85 | 423 | 391 |
| " " " 28 | | 9 | 307 | 300 | 268 | 89 | 406 | 379 |
| " " " 29 | | 5 | 173 | 176 | 146 | 83 | 244 | 234 |
| " " " 30 | | 13 | 533 | 542 | 440 | 82 | 792 | 716 |
| " " " 31 | | 5 | 175 | 194 | 164 | 85 | 267 | 242 |
| " " " 32 | | 8 | 245 | 240 | 195 | 81 | 377 | 334 |
| " " " 33 | | 8 | 292 | 295 | 247 | 84 | 407 | 384 |
| " " " 34 | | 5 | 200 | 189 | 150 | 79 | 294 | 239 |
| " " " 35 | | 6 | 188 | 193 | 155 | 80 | 276 | 260 |
| " " " 36 | | 5 | 210 | 191 | 158 | 83 | 263 | 241 |
| " " " 37 | | 5 | 214 | 205 | 143 | 70 | 322 | 269 |
| " " " 38 | | 7 | 261 | 274 | 214 | 78 | 359 | 355 |
| " " " 39 | | 3 | 99 | 98 | 86 | 88 | 109 | 43 |
| Totals | | 299 | 10,857 | 10,851 | 8,923 | 82 | 15,596 | 14,439 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE A—Continued.

| SCHOOLS. | TEACHERS. | | NUMBER OF PUPILS. | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Males. | Females. | On Roll December, 1897. | Average Roll for the Year. | Average Attendance for the Year. | Percentage of Attendance. | Whole Number in School During Year. | In School During the Year Excluding Duplicate Enrollment. |
| Colored Gram. No. 1.. | 1 | 11 | 427 | 470 | 385 | 82 | 709 | 578 |
| " " " 2.. | 2 | 4 | 212 | 186 | 163 | 88 | 298 | 211 |
| " " " 3.. | 1 | 7 | 255 | 223 | 200 | 90 | 356 | 245 |
| Male Colored No. 1.... | 1 | 5 | 226 | 211 | 145 | 69 | 339 | 327 |
| " " " 2.... | 1 | 6 | 244 | 236 | 166 | 70 | 344 | 331 |
| " " " 3.... | 2 | 9 | 400 | 376 | 348 | 87 | 513 | 507 |
| " " " 4.... | 2 | 9 | 462 | 389 | 316 | 82 | 561 | 546 |
| " " " 5.... | 2 | 3 | 162 | 149 | 117 | 79 | 204 | 201 |
| " " " 6.... | 2 | 4 | 224 | 224 | 169 | 76 | 330 | 329 |
| " " " 7.... | 2 | 12 | 517 | 461 | 392 | 85 | 664 | 648 |
| " " " 8.... | 1 | 8 | 329 | 313 | 249 | 80 | 431 | 424 |
| " " " 9.... | 10 | 8 | 801 | 729 | 585 | 80 | 1,017 | 986 |
| " and Fem. " 10.... | 3 | 10 | 679 | 546 | 408 | 75 | 914 | 849 |
| Fem. Colored " 1..... | | 8 | 350 | 376 | 240 | 63 | 547 | 536 |
| " " " 2..... | | 7 | 264 | 261 | 189 | 73 | 344 | 342 |
| " " " 3..... | | 12 | 438 | 405 | 330 | 82 | 576 | 568 |
| " " " 4..... | | 10 | 371 | 362 | 297 | 80 | 467 | 458 |
| " " " 5..... | | 6 | 197 | 187 | 135 | 72 | 258 | 254 |
| " " " 6..... | | 6 | 243 | 232 | 177 | 76 | 338 | 331 |
| " " " 7..... | | 17 | 735 | 648 | 560 | 88 | 927 | 899 |
| " " " 8..... | | 10 | 332 | 314 | 251 | 80 | 458 | 452 |
| " " " 9..... | | 20 | 885 | 759 | 622 | 82 | 1,078 | 1,051 |
| Totals..... | 30 | 192 | 8,753 | 8,057 | 6,444 | 80 | 11,673 | 11,073 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE A—Continued.

| SCHOOLS. | TEACHERS. | | NUMBER OF PUPILS. | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Males. | Females. | On Roll December, 1897. | Average Roll for the Year. | Average Attendance for the Year. | Percentage of Attendance. | Whole Number in School During Year. | In School During the Year Excluding Duplicate Enrollment. |
| Annex No. 1 | .... | 8 | 291 | 296 | 242 | 81 | 395 | 357 |
| " " 2 | 2 | 24 | 972 | 986 | 830 | 84 | 1,329 | 1,214 |
| " " 3, Male Gram | 1 | 7 | 264 | 252 | 217 | 86 | 400 | 275 |
| " " 3, Fem. Gram | .... | 9 | 356 | 293 | 248 | 85 | 469 | 302 |
| " " 3, Fem. Prim. | ... | 9 | 345 | 314 | 256 | 82 | 494 | 442 |
| " " 4 | ... | 11 | 454 | 420 | 352 | 84 | 625 | 581 |
| " " 5 | .... | 8 | 280 | 270 | 215 | 80 | 381 | 374 |
| " " 6 | 1 | 8 | 303 | 304 | 261 | 86 | 439 | 341 |
| " " 7 | 1 | 9 | 393 | 377 | 297 | 79 | 496 | 466 |
| " " 8 | 1 | 23 | 994 | 918 | 753 | 82 | 1,350 | 1,178 |
| " " 9 | 1 | 7 | 291 | 260 | 195 | 75 | 352 | 334 |
| " " 10 | 1 | 3 | 157 | 148 | 129 | 87 | 214 | 161 |
| " " 11 | 1 | 12 | 562 | 531 | 455 | 86 | 689 | 623 |
| " " 13 | .... | 20 | 853 | 790 | 638 | 81 | 1,159 | 1,028 |
| " " 14 | 1 | 3 | 119 | 112 | 88 | 79 | 152 | 144 |
| " " 15 | 1 | 9 | 397 | 326 | 271 | 83 | 519 | 400 |
| " " 16 | .... | 10 | 354 | 346 | 299 | 86 | 527 | 480 |
| " " 17 | ... | 7 | 257 | 255 | 217 | 85 | 358 | 327 |
| " " 18, Male Gram | 2 | 3 | 220 | 261 | 223 | 85 | 444 | 309 |
| " " 18, Fem. Gram | .... | 6 | 244 | 247 | 228 | 93 | 256 | 30 |
| " " 18, Primary | .... | 5 | 215 | 208 | 179 | 86 | 227 | 89 |
| " " 19 | .... | 6 | 223 | 212 | 173 | 82 | 299 | 261 |
| " " 1, Colored | 1 | 3 | 146 | 141 | 113 | 80 | 197 | 191 |
| " " 2, " | 1 | 1 | 86 | 74 | 49 | 66 | 125 | 123 |
| " " 3, " | 1 | 2 | 97 | 93 | 60 | 65 | 149 | 147 |
| Totals | 16 | 213 | 8,873 | 8,434 | 6,988 | 83 | 12,045 | 10,177 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE A—Continued.

| NIGHT SCHOOLS. | TEACHERS. | | NUMBER OF PUPILS. | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Males. | Females. | On Roll December, 1897. | Average Roll for the Year. | Average Attendance for the Year. | Percentage of Attendance. | Whole Number in School During Year. | In School During the Year Excluding Duplicate Enrollment. |
| Bohemian | 2 | 2 | 102 | 102 | 74 | 73 | 173 | 173 |
| No. 1 | 2 | ..... | 65 | 54 | 26 | 48 | 125 | 125 |
| Male No. 2, Polish | 7 | ..... | 250 | 200 | 144 | 72 | 500 | 500 |
| Female No. 2 | .... | 5 | 174 | 90 | 49 | 54 | 360 | 360 |
| No. 3 | 1 | 3 | 209 | 89 | 42 | 47 | 325 | 325 |
| " 5 | 1 | 1 | 50 | 38 | 18 | 47 | 91 | 91 |
| " 8 | 2 | ..... | 45 | 85 | 37 | 44 | 154 | 154 |
| " 11 | 1 | 1 | 38 | 54 | 23 | 42 | 101 | 101 |
| " 12 | 7 | ..... | 258 | 186 | 97 | 52 | 422 | 422 |
| " 17 | 2 | 2 | 145 | 126 | 84 | 67 | 325 | 325 |
| Annex No. 7 | 1 | 3 | 130 | 100 | 46 | 46 | 230 | 230 |
| Colored No. 1 | 1 | 2 | 120 | 122 | 61 | 50 | 324 | 324 |
| " " 3 | 3 | 1 | 142 | 143 | 73 | 51 | 362 | 362 |
| " " 4 | 1 | 1 | 134 | 90 | 41 | 46 | 257 | 257 |
| | 31 | 21 | 1,862 | 1,479 | 815 | 55 | 3,749 | 3,749 |
| Balto. Polytechnic Ins. | 20 | ..... | 728 | 544 | 250 | 46 | 1,310 | 1,310 |
| Totals | 51 | 21 | 2,590 | 2,023 | 1,065 | 52 | 5,059 | 5,059 |

| SCHOOLS. | Number of Schools, December, 1897. | NUMBER OF TEACHERS. | | | | NUMBER OF PUPILS. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Males, December, 1897. | Females, December, 1897. | Totals, December, 1897. | Average for the Year. | On Roll, December, 1897. | Average Roll for the Year. | Average Attendance for the Year. | Percentage of Attendance. | Whole Number in School During the Year. | In School During Year Excluding Duplicate Enrollment. |
| Baltimore City College | 1 | 16 | ..... | 16 | 16 | 670 | 654 | 617 | 94 | 1,031 | 713 |
| Eastern Female High School | 1 | 1 | 12 | 13 | 13 | 423 | 409 | 378 | 93 | 606 | 430 |
| Western Female High School | 1 | 1 | 15 | 16 | 16 | 670 | 626 | 573 | 92 | 960 | 644 |
| Colored High School | 1 | 1 | 5 | 6 | 6 | 161 | 142 | 132 | 93 | 199 | 147 |
| Polytechnic Institute | 1 | 20 | ..... | 20 | 20 | 554 | 503 | 469 | 93 | 925 | 834 |
| Colored Polytechnic Institute | 1 | 7 | ..... | 7 | 7 | 120 | 96 | 86 | 90 | 151 | 88 |
| Male Grammar | 21 | 37 | 168 | 205 | 204 | 7,398 | 7,152 | 6,334 | 89 | 10,391 | 8,029 |
| Female Grammar | 20 | ..... | 215 | 215 | 214 | 7,748 | 7,569 | 6,550 | 87 | 10,839 | 8,493 |
| English-German | 7 | 22 | 162 | 184 | 185 | 7,143 | 6,937 | 6,250 | 90 | 9,063 | 8,570 |
| Male Primary | 38 | ..... | 313 | 313 | 317 | 11,232 | 11,138 | 9,465 | 85 | 16,170 | 14,905 |
| Female Primary | 38 | ..... | 299 | 299 | 294 | 10,857 | 10,851 | 8,923 | 82 | 15,596 | 14,439 |
| Colored | 22 | 30 | 192 | 222 | 216 | 8,753 | 8,057 | 6,444 | 80 | 11,673 | 11,073 |
| Annex | 25 | 16 | 213 | 229 | 200 | 8,873 | 8,434 | 6,988 | 83 | 12,045 | 10,177 |
| | 177 | 151 | 1,594 | 1,745 | 1,708 | 64,602 | 62,568 | 53,209 | 85 | 89,649 | 78,542 |
| Special — Music | | 2 | ..... | 2 | 2 | | | | | | |
| Special — Drawing | | ..... | 18 | 18 | 17 | | | | | | |
| Special — Sewing | | ..... | 29 | 29 | 29 | | | | | | |
| Totals | 177 | 153 | 1,641 | 1,794 | 1,756 | 64,602 | 62,568 | 53,209 | 85 | 89,649 | 78,542 |
| Night Schools | 14 | 31 | 21 | 52 | ..... | 1,862 | 1,479 | 815 | 55 | 3,749 | 3,749 |
| Polytechnic Night School | 1 | 20 | ..... | 20 | ..... | 728 | 544 | 250 | 46 | 1,310 | 1,310 |
| Totals | 15 | 51 | 21 | 72 | ..... | 2,590 | 2,023 | 1,065 | 52 | 5,059 | 5,059 |

## Tables Accompanying the Superintendent's Report.

### TABLE B.

Different Grades of Schools Compared.

| | 1897. | 1896. | Increase | Decrease |
|---|---|---|---|---|
| No. of pupils in B.C.C. and High Schools... | 1,924 | 1,903 | 21 | |
| No. of pupils in Polytechnic Institute and Colored Polytechnic Institute..... | 674 | 608 | 66 | |
| No. of pupils in Grammar Schools..... | 15,146 | 15,210 | | 64 |
| " " " " English-German Schools... | 7,143 | 7,049 | 94 | |
| " " " " Primary Schools..... | 22,089 | 22,099 | | 10 |
| " " " " Colored " ..... | 8,753 | 8,302 | 451 | |
| " " " " Annex " ..... | 8,873 | 7,916 | 957 | |
| Totals..... | 64,602 | 63,087 | 1,589 | 74 |
| Net increase in day schools..... | | | 1,515 | |

### TABLE BB.

Different Grades of Classes Compared.

| | 1897. | 1896. | Increase | Decrease |
|---|---|---|---|---|
| No. of pupils in Fifth Year Course of B.C.C. | 34 | 27 | 7 | |
| No. of pupils in Fourth Year Course of B.C.C. and High Schools, and Polytechnic Insti'e. | 238 | 229 | 9 | |
| No. of pupils in Third Year Course of B.C.C. and High Schools, and Polytechnic Inst'e. | 317 | 388 | | 71 |
| No. of pupils in Sec'd Year Course of B.C.C., Polytechnic Institute and Col. Poly'c Ins. | 592 | 663 | | 71 |
| No. of pupils in First Year Course of B.C.C., Polytechnic Institute and Colored Poy'c In. | 888 | 1,007 | | 119 |
| No. of pupils in Preparatory Course of Polytechnic Institute and Colored Poly'c Inst'e. | 529 | 197 | 332 | |
| No. of pupils in Eighth Grade—Grammar... | 1,640 | 1,484 | 156 | |
| " " " " Seventh " " | 2,471 | 2,482 | | 11 |
| " " " " Sixth " " | 4,022 | 3,974 | 48 | |
| " " " " Fifth " " | 6,200 | 5,774 | 426 | |
| " " " " Fourth " " | 8,272 | 8,148 | 124 | |
| " " " " Third " " | 9,434 | 9,043 | 391 | |
| " " " " Second " " | 11,592 | 11,344 | 248 | |
| " " " " First " " | 18,373 | 18,327 | 46 | |
| Totals..... | 64,602 | 63,087 | 1,787 | 272 |
| Net increase in day schools..... | | | 1,515 | |

## Tables Accompanying the Superintendent's Report.

### TABLE C.

Showing the Number of Pupils and Teachers in the Public Schools on Roll at the time of Making the Report Each Year, from the Year 1829, when the First Public School was Opened, to the Year 1897, Inclusive.

This statement does not include Night Schools, Normal Classes, nor Floating Schools.

The figures for 1888, and subsequently, include the Annex Schools.

| *Date.* | *Teachers.* | *Pupils.* | *Date.* | *Teachers.* | *Pupils.* |
|---|---|---|---|---|---|
| 1829 | 3 | 269 | 1864 | 343 | 15,319 |
| 1830 | 5 | 402 | 1865 | 366 | 15,957 |
| 1831 | 5 | 627 | 1866 | 402 | 17,550 |
| 1832 | 5 | 640 | 1867 | 490 | 22,073 |
| 1833 | 5 | 544 | 1868 | 537 | 21,903 |
| 1834 | 8 | 859 | 1869 | 540 | 23,552 |
| 1835 | 8 | 747 | 1870 | 549 | 23,898 |
| 1836 | 8 | 814 | 1871 | 559 | 24,479 |
| 1837 | 8 | 659 | 1872 | 581 | 25,092 |
| 1838 | 8 | 675 | 1873 | 588 | 26,663 |
| 1839 | 16 | 1,126 | 1874 | 626 | 27,634 |
| 1840 | 22 | 1,834 | 1875 | 672 | 29,942 |
| 1841 | 27 | 2,331 | 1876 | 717 | 31,071 |
| 1842 | 28 | 2,464 | 1877 | 734 | 32,523 |
| 1843 | 30 | 2,669 | 1878 | 784 | 34,002 |
| 1844 | 38 | 3,366 | 1879 | 798 | 35,595 |
| 1845 | 52 | 4,313 | 1880 | 799 | 35,297 |
| 1846 | 65 | 5,087 | 1881 | 824 | 35,630 |
| 1847 | 90 | 6,439 | 1882 | 826 | 35,639 |
| 1848 | 100 | 6,696 | 1883 | 855 | 37,546 |
| 1849 | 110 | 6,763 | 1884 | 893 | 38,618 |
| 1850 | 119 | 7,093 | 1885 | 930 | 39,828 |
| 1851 | 138 | 8,011 | 1886 | 972 | 39,779 |
| 1852 | 175 | 9,081 | 1887 | 994 | 41,199 |
| 1853 | 186 | 9,447 | 1888 | 1,119 | 46,521 |
| 1854 | 207 | 9,717 | 1889 | 1,187 | 48,850 |
| 1855 | 217 | 10,588 | 1890 | 1,244 | 50,899 |
| 1856 | 238 | 11,441 | 1891 | 1,301 | 52,543 |
| 1857 | 245 | 11,269 | 1892 | 1,382 | 54,406 |
| 1858 | 256 | 11,587 | 1893 | 1,464 | 57,048 |
| 1859 | 267 | 11,750 | 1894 | 1,557 | 59,808 |
| 1860 | 284 | 13,186 | 1895 | 1,614 | 61,271 |
| 1861 | 295 | 13,424 | 1896 | 1,719 | 63,087 |
| 1862 | 311 | 13,888 | 1897 | 1,794 | 64,602 |
| 1863 | 333 | 14,847 | | | |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE D.

| SCHOOLS. | NUMBER OF PUPILS BETWEEN THE AGES OF | | | | | | | | | | | | | | | | TOTALS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 | 10–11 | 11–12 | 12–13 | 13–14 | 14–15 | 15–16 | 16–17 | 17–18 | 18–19 | 19–20 | 20–21 | |
| Baltimore City College | | | | | | | | | 17 | 99 | 180 | 170 | 124 | 57 | 20 | 3 | 670 |
| Eastern Female High Sch'l | | | | | | | | | 6 | 42 | 91 | 87 | 96 | 72 | 21 | 8 | 423 |
| Western Female High Sch'l | | | | | | | | | 6 | 54 | 135 | 192 | 165 | 91 | 25 | 2 | 670 |
| Colored High School | | | | | | | | | | 4 | 10 | 23 | 59 | 30 | 18 | 17 | 161 |
| Totals | | | | | | | | | 29 | 199 | 416 | 472 | 444 | 250 | 84 | 30 | 1,924 |
| Polytechnic Institute | | | | | | | 6 | 41 | 74 | 132 | 141 | 100 | 39 | 17 | 3 | 1 | 554 |
| Col'd Polytechnic Institute | | | | | | | | | 12 | 14 | 31 | 21 | 20 | 11 | 7 | 4 | 120 |
| Totals | | | | | | | 6 | 41 | 86 | 146 | 172 | 121 | 59 | 28 | 10 | 5 | 674 |
| Male Grammar No. 1 | | | | 2 | 10 | 35 | 54 | 74 | 74 | 47 | 22 | 4 | 2 | | | | 324 |
| " " " 2 | | | | 1 | 10 | 48 | 90 | 126 | 112 | 56 | 22 | 7 | | | | | 472 |
| " " " 3 | | | | | 3 | 13 | 41 | 60 | 34 | 16 | 6 | | | | | | 173 |
| " " " 4 | | | | | 13 | 47 | 73 | 83 | 69 | 45 | 32 | 8 | 1 | | | | 371 |
| " " " 5 | | | | 2 | 9 | 33 | 59 | 60 | 63 | 35 | 16 | 8 | 1 | | | | 286 |
| " " " 6 | | | | | 22 | 41 | 62 | 60 | 59 | 39 | 16 | 8 | | | | | 307 |
| " " " 7 | | | | 2 | 15 | 53 | 84 | 105 | 92 | 46 | 15 | 7 | 3 | | | | 422 |
| " " " 8 | | | | 2 | 26 | 48 | 80 | 89 | 89 | 59 | 46 | 11 | 1 | 1 | | | 452 |
| " G. and P. " 9 | 1 | 7 | 11 | 15 | 12 | 15 | 9 | 14 | 12 | 9 | 11 | 5 | 2 | 1 | | | 124 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Male Grammar | No. | 10 | | | | 1 | 21 | 47 | 81 | 109 | 96 | 86 | 28 | 7 | 2 | | | | | 478 |
| " " | " | 11 | | | | 3 | 20 | 58 | 76 | 68 | 78 | 36 | 20 | 6 | | 1 | | | | 366 |
| " " | " | 12 | | | | | 21 | 55 | 65 | 95 | 65 | 44 | 18 | 4 | | | | | | 367 |
| " " | " | 13 | | | | | 5 | 21 | 49 | 45 | 35 | 19 | 4 | 1 | | | | | | 179 |
| " " | " | 15 | | | | 6 | 20 | 54 | 83 | 95 | 84 | 70 | 36 | 15 | | | | | | 463 |
| " " | " | 16 | 10 | 57 | 47 | 54 | 46 | 43 | 39 | 35 | 33 | 18 | 4 | 2 | | | | | | 388 |
| " " | " | 17 | | | | 2 | 12 | 48 | 48 | 83 | 87 | 49 | 16 | 6 | | | | | | 351 |
| " " | " | 18 | | | | 1 | 10 | 36 | 46 | 67 | 69 | 40 | 27 | 12 | | | 3 | | | 311 |
| " " | " | 19 | | | | 3 | 14 | 48 | 74 | 84 | 63 | 43 | 25 | 14 | 5 | | | | | 373 |
| " " | " | 20 | | | | 4 | 21 | 57 | 100 | 135 | 141 | 92 | 44 | 11 | | | | | | 605 |
| " " | " | 21 | | | | | 15 | 47 | 59 | 73 | 86 | 47 | 35 | 10 | | | | | | 372 |
| M. and F. Gram. | " | 22 | | | | 2 | 10 | 25 | 36 | 31 | 54 | 37 | 18 | 1 | | | | | | 214 |
| Totals | | | 11 | 64 | 58 | 100 | 335 | 872 | 1,308 | 1,591 | 1,495 | 933 | 461 | 147 | 17 | 6 | | | | 7,398 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE D—Continued.

| SCHOOLS. | NUMBER OF PUPILS BETWEEN THE AGES OF | | | | | | | | | | | | | | | | TOTALS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | |
| Female Grammar No. 1 | | | | | 11 | 24 | 46 | 70 | 85 | 52 | 32 | 13 | | | | | 333 |
| " " " 2 | | | | | 14 | 68 | 104 | 105 | 94 | 64 | 22 | 4 | 3 | | | | 478 |
| " " " 3 | | | | | 14 | 21 | 33 | 37 | 17 | 12 | 11 | | | | | | 145 |
| " " " 4 | | | | 3 | 20 | 35 | 64 | 76 | 55 | 34 | 16 | 5 | 1 | | | | 309 |
| " " " 5 | | | | 3 | 15 | 39 | 61 | 54 | 63 | 36 | 9 | 1 | 1 | | | | 282 |
| " " " 6 | | | | 1 | 21 | 46 | 70 | 89 | 68 | 71 | 50 | 19 | 3 | | | | 438 |
| " " " 7 | | | | | 11 | 47 | 92 | 99 | 77 | 72 | 27 | 11 | 2 | | | | 438 |
| " " " 8 | | | | | 14 | 43 | 93 | 104 | 90 | 74 | 37 | 6 | | | | | 461 |
| Female G. and P. " 9 | 15 | 7 | 8 | 15 | 14 | 11 | 22 | 14 | 16 | 7 | 3 | | | | | | 132 |
| " Grammar " 10 | | | | 1 | 5 | 57 | 91 | 89 | 83 | 57 | 25 | 3 | 1 | | | | 412 |
| " " " 11 | | | | 4 | 20 | 40 | 70 | 93 | 71 | 61 | 17 | 7 | 1 | | | | 384 |
| " " " 12 | | | | 1 | 32 | 72 | 100 | 85 | 41 | 29 | 15 | 4 | | | | | 379 |
| " " " 13 | | | | | 11 | 40 | 45 | 56 | 67 | 30 | 27 | 5 | 2 | | | | 283 |
| " " " 15 | | | | 7 | 40 | 75 | 88 | 106 | 97 | 87 | 54 | 24 | 5 | | | | 583 |
| " " " 16 | 21 | 81 | 42 | 40 | 42 | 43 | 45 | 44 | 18 | 15 | 3 | | | | | | 394 |
| " " " 17 | | | | | 12 | 34 | 45 | 77 | 58 | 54 | 31 | 6 | | | | | 317 |
| " " " 18 | | | | | 12 | 32 | 52 | 55 | 65 | 63 | 36 | 21 | 10 | | | | 346 |
| " " " 19 | | | | 5 | 17 | 37 | 63 | 83 | 78 | 76 | 53 | 26 | 5 | | | | 443 |
| " " " 20 | | | | 11 | 50 | 96 | 112 | 173 | 143 | 103 | 47 | 12 | 4 | | | | 751 |
| " " " 21 | | | | 23 | 45 | 73 | 70 | 56 | 53 | 56 | 43 | 21 | | | | | 440 |
| Totals | 36 | 88 | 50 | 114 | 420 | 933 | 1,366 | 1,565 | 1,339 | 1,053 | 558 | 188 | 38 | | | | 7,748 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| English-German | No. | 1..... | 12 | 28 | 40 | 47 | 54 | 37 | 46 | 39 | 31 | 25 | 12 | 3 | ..... | ..... | ..... | ..... | ..... | 374 |
| " | " | " | 2..... | ... | 113 | 145 | 169 | 142 | 139 | 147 | 128 | 51 | 22 | 6 | 1 | ..... | ..... | ..... | ..... | 1,063 |
| " | " | " | 3..... | 51 | 174 | 185 | 203 | 265 | 212 | 217 | 157 | 150 | 58 | 24 | 8 | 2 | ..... | ..... | ..... | 1,706 |
| " | " | " | 4..... | 28 | 149 | 160 | 186 | 188 | 183 | 181 | 135 | 113 | 53 | 14 | 1 | ..... | ..... | ..... | ..... | 1,391 |
| " | " | " | 5..... | 13 | 118 | 129 | 139 | 131 | 150 | 131 | 121 | 86 | 53 | 15 | 4 | 1 | ..... | ..... | ..... | 1,091 |
| " | " | " | 6..... | 8 | 131 | 179 | 172 | 151 | 148 | 113 | 123 | 44 | 12 | 5 | 1 | ..... | ..... | ..... | ..... | 1,107 |
| " | " | " | 7..... | 12 | 66 | 68 | 57 | 46 | 45 | 56 | 31 | 21 | 6 | 2 | 1 | ..... | ..... | ..... | ... | 411 |
| Totals.. | ..... | | 124 | 799 | 906 | 973 | 977 | 914 | 891 | 734 | 496 | 229 | 78 | 19 | 3 | ..... | ..... | ..... | ..... | 7,143 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE D—Continued.

| SCHOOLS. | NUMBER OF PUPILS BETWEEN THE AGES OF | | | | | | | | | | | | | | | TOTALS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 | 10–11 | 11–12 | 12–13 | 13–14 | 14–15 | 15–16 | 16–17 | 17–18 | 18–19 | 19–20 | 20–21 | |
| Male Primary No. 1. | 5 | 38 | 47 | 47 | 56 | 45 | 12 | 12 | 4 | 1 | | | | | | | 267 |
| " " " 2. | 7 | 20 | 28 | 17 | 46 | 35 | 25 | 14 | 7 | | 1 | | | | | | 230 |
| " " " 3. | 2 | 48 | 63 | 79 | 79 | 65 | 50 | 28 | 8 | 5 | 2 | | | | | | 429 |
| " " " 4. | 11 | 47 | 52 | 49 | 31 | 30 | 16 | 9 | 4 | 2 | | | | | | | 251 |
| " " " 5. | 10 | 84 | 78 | 69 | 77 | 65 | 31 | 6 | 1 | | | | | | | | 421 |
| " " " 6. | 2 | 82 | 80 | 72 | 91 | 46 | 39 | 12 | 5 | | | | | | | | 429 |
| " " " 7. | 3 | 48 | 31 | 30 | 30 | 31 | 9 | 7 | 2 | | | | | | | | 191 |
| " " " 8. | 1 | 48 | 37 | 49 | 46 | 28 | 19 | 13 | 3 | | | | | | | | 244 |
| " " " 10. | 2 | 35 | 29 | 26 | 27 | 12 | 20 | 11 | 7 | | | 1 | | | | | 170 |
| " " " 11. | 14 | 71 | 96 | 96 | 91 | 67 | 21 | 16 | 7 | 3 | | | | | | | 482 |
| " " " 12. | 32 | 59 | 55 | 67 | 49 | 32 | 31 | 27 | 9 | | | | | | | | 361 |
| " " " 13. | 3 | 39 | 35 | 32 | 29 | 29 | 17 | 15 | 5 | 1 | | | | | | | 205 |
| " " " 14. | 10 | 37 | 41 | 70 | 60 | 23 | 17 | 4 | 2 | | | | | | | | 264 |
| " " " 15. | 8 | 53 | 68 | 67 | 60 | 48 | 27 | 16 | 2 | 1 | | | | | | | 350 |
| " " " 16. | 4 | 45 | 45 | 48 | 38 | 21 | 19 | 12 | 7 | 2 | 1 | | | | | | 242 |
| " " " 17. | 7 | 34 | 42 | 37 | 37 | 27 | 23 | 15 | 4 | 1 | | | | | | | 227 |
| " " " 18. | 4 | 33 | 33 | 51 | 42 | 20 | 11 | 9 | 2 | 3 | 1 | | | | | | 209 |
| " " " 19. | 3 | 13 | 19 | 24 | 28 | 26 | 13 | 6 | 7 | 1 | | | | | | | 140 |
| " " " 20. | 18 | 147 | 179 | 181 | 157 | 95 | 64 | 23 | 17 | 2 | | | | | | | 883 |
| " " " 21. | 3 | 31 | 42 | 54 | 54 | 33 | 21 | 16 | 7 | 2 | | | | | | | 263 |
| " " " 22. | | 41 | 51 | 62 | 46 | 43 | 19 | 26 | 6 | 6 | | | | | | | 300 |
| " " " 23. | 15 | 45 | 53 | 53 | 47 | 40 | 28 | 18 | 7 | 3 | 2 | | | | | | 311 |
| " " " 24. | 8 | 40 | 47 | 58 | 43 | 53 | 23 | 24 | 5 | 1 | | | | | | | 302 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Male Primary No. 25. | 10 | 40 | 47 | 75 | 66 | 44 | 40 | 27 | 7 | 2 | | | | | | | | | 358 |
| " " " 26. | 7 | 28 | 32 | 49 | 28 | 32 | 12 | 9 | 2 | 2 | | | | | | | | | 201 |
| " " " 27. | 5 | 47 | 73 | 63 | 59 | 38 | 13 | 5 | 1 | 1 | | | | | | | | | 305 |
| " " " 28. | 3 | 51 | 62 | 56 | 49 | 40 | 23 | 12 | 2 | 2 | 1 | | | | | | | | 301 |
| " " " 29. | 7 | 33 | 32 | 32 | 33 | 16 | 16 | 7 | 2 | | | | | | | | | | 178 |
| " " " 30. | 2 | 69 | 127 | 124 | 101 | 66 | 49 | 19 | 16 | 4 | | | | | | | | | 577 |
| " " " 31. | | 31 | 32 | 42 | 16 | 19 | 9 | 2 | | 1 | 1 | | | | | | | | 153 |
| " " " 32. | 5 | 54 | 68 | 56 | 51 | 25 | 13 | 7 | 2 | | | | | | | | | | 281 |
| " " " 33. | 12 | 68 | 58 | 63 | 51 | 36 | 18 | 12 | 2 | | | | | | | | | | 320 |
| " " " 34. | 1 | 38 | 46 | 58 | 39 | 25 | 22 | 15 | 6 | | | | | | | | | | 250 |
| " " " 35. | 3 | 33 | 31 | 32 | 40 | 34 | 37 | 10 | 5 | 2 | 1 | 1 | | | | | | | 229 |
| " " " 36. | 5 | 46 | 37 | 42 | 35 | 22 | 11 | 15 | 4 | | | | | | | | | | 217 |
| " " " 37. | 1 | 31 | 51 | 47 | 38 | 26 | 20 | 16 | 10 | 2 | 1 | | | | | | | | 243 |
| " " " 38. | 8 | 38 | 49 | 54 | 50 | 37 | 18 | 11 | 3 | | | | | | | | | | 268 |
| " " " 39. | 6 | 23 | 32 | 35 | 38 | 19 | 10 | 10 | 6 | 1 | | | | | | | | | 180 |
| Totals | 247 | 1,768 | 2,028 | 2,196 | 1,958 | 1,393 | 866 | 516 | 196 | 51 | 11 | 2 | | | | | | | 11,232 |

TABLE D—Continued.

| Schools. | Number of Pupils Between the Ages of | | | | | | | | | | | | | | | Totals. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 | 10–11 | 11–12 | 12–13 | 13–14 | 14–15 | 15–16 | 16–17 | 17–18 | 18–19 | 19–20 | 20–21 | |
| Female Prim'y No. 1 | 2 | 45 | 54 | 55 | 44 | 42 | 20 | 17 | 5 | 3 | | 1 | | | | | 288 |
| " " " 2 | 8 | 70 | 41 | 51 | 40 | 28 | 11 | 4 | | | | | | | | | 253 |
| " " " 3 | 9 | 123 | 97 | 89 | 71 | 61 | 35 | 15 | 6 | | | | | | | | 506 |
| " " " 4 | 21 | 46 | 45 | 49 | 44 | 27 | 17 | 7 | 6 | 1 | | | | | | | 263 |
| " " " 5 | 10 | 58 | 84 | 81 | 83 | 60 | 31 | 13 | 5 | 3 | | | | | | | 428 |
| " " " 6 | 10 | 63 | 87 | 83 | 76 | 59 | 29 | 19 | 4 | | | | | | | | 430 |
| " " " 7 | 9 | 47 | 49 | 50 | 36 | 17 | 9 | 6 | 2 | | | | | | | | 225 |
| " " " 8 | 6 | 50 | 23 | 31 | 26 | 22 | 22 | 5 | 4 | | | | | | | | 189 |
| " " " 10 | 7 | 36 | 33 | 43 | 29 | 22 | 11 | 13 | 5 | 2 | | | | | | | 201 |
| " " " 11 | 7 | 110 | 139 | 109 | 81 | 50 | 14 | 6 | 1 | 1 | | | | | | | 518 |
| " " " 12 | ... | 58 | 54 | 70 | 57 | 41 | 14 | 7 | 3 | 2 | | | | | | | 306 |
| " " " 13 | 4 | 40 | 38 | 41 | 29 | 28 | 14 | 11 | 4 | 2 | | | | | | | 214 |
| " " " 14 | 6 | 33 | 45 | 48 | 49 | 20 | 6 | 5 | 2 | | | | | | | | 214 |
| " " " 15 | 8 | 57 | 71 | 95 | 68 | 32 | 22 | 6 | 4 | | | | | | | | 366 |
| " " " 16 | 15 | 39 | 53 | 33 | 42 | 23 | 4 | 29 | 4 | | | | | | | | 242 |
| " " " 17 | 9 | 19 | 49 | 57 | 51 | 33 | 20 | 20 | 3 | 1 | | | | | | | 292 |
| " " " 18 | 2 | 32 | 31 | 55 | 45 | 12 | 9 | 7 | 2 | | | | | | | | 198 |
| " " " 19 | ... | 27 | 21 | 18 | 28 | 15 | 12 | 13 | 1 | | | | | | | | 135 |
| " " " 20 | 13 | 127 | 168 | 135 | 120 | 82 | 40 | 23 | 9 | 2 | 1 | | | | | | 720 |
| " " " 21 | 2 | 37 | 45 | 41 | 36 | 39 | 15 | 11 | 6 | | | | | | | | 235 |
| " " " 22 | 3 | 32 | 55 | 56 | 61 | 36 | 24 | 13 | 6 | 2 | | | | | | | 286 |
| " " " 23 | 8 | 68 | 65 | 61 | 63 | 36 | 27 | 8 | 4 | 1 | | | | | | | 344 |
| " " " 24 | 17 | 53 | 50 | 62 | 54 | 42 | 25 | 10 | 5 | | | | | | | | 318 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Female Prim'y | No. | 25 | 14 | 45 | 50 | 62 | 59 | 42 | 19 | | | | | | | | | | | 291 |
| " " | " | 26 | 3 | 36 | 36 | 41 | 30 | 24 | 15 | 8 | 2 | | | | | | | | | 195 |
| " " | " | 27 | 9 | 40 | 42 | 50 | 81 | 40 | 24 | 10 | 7 | | | | | | | | | 303 |
| " " | " | 28 | 5 | 50 | 54 | 64 | 58 | 36 | 26 | 10 | 4 | | | | | | | | | 307 |
| " " | " | 29 | 2 | 35 | 26 | 38 | 28 | 28 | 10 | 4 | 1 | 1 | | | | | | | | 173 |
| " " | " | 30 | 3 | 71 | 95 | 137 | 89 | 80 | 34 | 16 | 6 | 2 | | | | | | | | 533 |
| " " | " | 31 | 3 | 31 | 33 | 34 | 22 | 14 | 19 | 11 | 5 | 1 | 1 | 1 | | | | | | 175 |
| " " | " | 32 | 2 | 46 | 55 | 48 | 46 | 31 | 7 | 8 | 1 | | | | 1 | | | | | 245 |
| " " | " | 33 | | 42 | 50 | 60 | 54 | 46 | 25 | 7 | 7 | 1 | | | | | | | | 292 |
| " " | " | 34 | 4 | 22 | 41 | 40 | 34 | 29 | 14 | 10 | 5 | 1 | | | | | | | | 200 |
| " " | " | 35 | 3 | 33 | 31 | 31 | 33 | 23 | 18 | 8 | 7 | | 1 | | | | | | | 188 |
| " " | " | 36 | 11 | 39 | 66 | 34 | 25 | 15 | 14 | 5 | | | | 1 | | | | | | 210 |
| " " | " | 37 | 2 | 53 | 19 | 59 | 28 | 26 | 15 | 7 | 5 | | | | | | | | | 214 |
| " " | " | 38 | 23 | 42 | 40 | 50 | 42 | 34 | 18 | 8 | 2 | 2 | | | | | | | | 261 |
| " " | " | 39 | 2 | 20 | 23 | 20 | 15 | 12 | 3 | 2 | 2 | | | | | | | | | 99 |
| Totals | | | 262 | 1,905 | 2,062 | 2,190 | 1,877 | 1,307 | 692 | 382 | 145 | 28 | 3 | 3 | 1 | | | | | 10,857 |

TABLE D—Continued.

| SCHOOLS. | NUMBER OF PUPILS BETWEEN THE AGES OF | | | | | | | | | | | | | | | TOTALS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 | 10–11 | 11–12 | 12–13 | 13–14 | 14–15 | 15–16 | 16–17 | 17–18 | 18–19 | 19–20 | 20–21 | |
| Grammar Colored No 1 | | | | | | 5 | 16 | 42 | 93 | 91 | 93 | 61 | 18 | 8 | | | 427 |
| " " " 2 | | | | | 2 | 2 | 15 | 27 | 49 | 46 | 38 | 26 | 7 | | | | 212 |
| " " " 3 | | | | | 1 | 6 | 12 | 30 | 50 | 61 | 54 | 28 | 12 | | 1 | | 255 |
| Male Colored No. 1 | | 11 | 22 | 28 | 35 | 30 | 31 | 24 | 23 | 11 | 9 | 1 | 1 | | | | 226 |
| " " " 2 | 2 | 37 | 32 | 25 | 20 | 32 | 28 | 25 | 26 | 13 | 4 | | | | | | 244 |
| " " " 3 | 4 | 28 | 60 | 47 | 40 | 41 | 50 | 59 | 31 | 24 | 12 | 4 | | | | | 400 |
| " " " 4 | 3 | 34 | 49 | 68 | 60 | 63 | 65 | 54 | 35 | 19 | 7 | 4 | 1 | | | | 462 |
| " " " 5 | 1 | 15 | 17 | 17 | 26 | 17 | 23 | 17 | 8 | 15 | 5 | 1 | | | | | 162 |
| " " " 6 | | 19 | 40 | 35 | 19 | 33 | 23 | 25 | 17 | 11 | 1 | 1 | | | | | 224 |
| " " " 7 | | 30 | 53 | 65 | 77 | 60 | 55 | 53 | 53 | 42 | 20 | 8 | 1 | | | | 517 |
| " " " 8 | | 26 | 55 | 51 | 45 | 41 | 37 | 32 | 21 | 15 | 4 | 2 | | | | | 329 |
| " " " 9 | 36 | 56 | 74 | 82 | 96 | 101 | 76 | 106 | 81 | 59 | 27 | 5 | 1 | | 1 | | 801 |
| " " " 10 | 14 | 40 | 56 | 53 | 61 | 78 | 65 | 77 | 88 | 62 | 45 | 27 | 6 | 4 | 3 | | 679 |
| Female Colored No. 1 | | 25 | 25 | 31 | 37 | 44 | 34 | 59 | 46 | 30 | 14 | 3 | 2 | | | | 350 |
| " " " 2 | | 27 | 29 | 25 | 35 | 40 | 34 | 32 | 24 | 15 | 3 | | | | | | 264 |
| " " " 3 | | 38 | 45 | 54 | 53 | 79 | 58 | 51 | 35 | 12 | 8 | 4 | 1 | | | | 438 |
| " " " 4 | | 30 | 45 | 59 | 54 | 46 | 37 | 50 | 33 | 13 | 4 | | | | | | 371 |
| " " " 5 | 9 | 22 | 24 | 22 | 17 | 21 | 33 | 20 | 20 | 8 | 1 | | | | | | 197 |
| " " " 6 | 7 | 21 | 26 | 23 | 41 | 35 | 19 | 30 | 21 | 14 | 5 | 1 | | | | | 243 |
| " " " 7 | 1 | 46 | 80 | 80 | 86 | 107 | 96 | 97 | 68 | 46 | 23 | 3 | 2 | | | | 735 |
| " " " 8 | 3 | 33 | 38 | 50 | 55 | 41 | 46 | 29 | 19 | 11 | 7 | | | | | | 332 |
| " " " 9 | 16 | 82 | 97 | 119 | 115 | 115 | 104 | 91 | 68 | 47 | 25 | 6 | 2 | | | | 885 |
| Totals | 96 | 620 | 867 | 934 | 975 | 1,037 | 957 | 1,030 | 909 | 665 | 407 | 185 | 54 | 12 | 5 | | 8,753 |

TABLE D—Continued.

| SCHOOLS. | NUMBER OF PUPILS BETWEEN THE AGES OF | | | | | | | | | | | | | | | TOTALS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 | 10–11 | 11–12 | 12–13 | 13–14 | 14–15 | 15–16 | 16–17 | 17–18 | 18–19 | 19–20 | 20–21 | |
| Annex No. 1 | 7 | 28 | 42 | 36 | 32 | 44 | 40 | 26 | 27 | 5 | 4 | | | | | | 291 |
| " " 2 | 8 | 59 | 91 | 101 | 115 | 93 | 132 | 104 | 109 | 94 | 42 | 21 | 3 | | | | 972 |
| " " 3, Male Gram | | | | 2 | 9 | 26 | 50 | 55 | 47 | 40 | 21 | 11 | 3 | | | | 264 |
| " " 3, Fem. " | | | 1 | 1 | 21 | 43 | 57 | 70 | 59 | 56 | 33 | 8 | 7 | | | | 356 |
| " " 3, " Prim | 5 | 54 | 65 | 86 | 54 | 37 | 20 | 12 | 9 | 3 | | | | | | | 345 |
| " " 4 | 4 | 87 | 74 | 90 | 87 | 59 | 29 | 19 | 3 | | 2 | | | | | | 454 |
| " " 5 | 10 | 44 | 52 | 53 | 48 | 30 | 19 | 15 | 5 | 4 | | | | | | | 280 |
| " " 6 | | | | 3 | 22 | 45 | 57 | 59 | 53 | 43 | 15 | 5 | 1 | | | | 303 |
| " " 7 | 6 | 28 | 49 | 56 | 47 | 51 | 50 | 40 | 33 | 18 | 12 | 3 | | | | | 393 |
| " " 8 | 12 | 111 | 121 | 141 | 135 | 119 | 105 | 103 | 72 | 47 | 25 | 2 | 1 | | | | 994 |
| " " 9 | 4 | 22 | 34 | 29 | 31 | 44 | 34 | 29 | 38 | 14 | 11 | 1 | | | | | 291 |
| " " 10 | | | | | 2 | 20 | 27 | 35 | 24 | 28 | 16 | 5 | | | | | 157 |
| " " 11 | 14 | 53 | 52 | 57 | 72 | 62 | 68 | 65 | 49 | 41 | 21 | 7 | 1 | | | | 562 |
| " " 13 | 11 | 89 | 127 | 121 | 97 | 111 | 84 | 94 | 70 | 34 | 11 | 4 | | | | | 853 |
| " " 14 | 2 | 8 | 12 | 12 | 15 | 9 | 15 | 11 | 14 | 10 | 3 | 4 | 4 | | | | 119 |
| " " 15 | 3 | 40 | 38 | 53 | 42 | 50 | 41 | 39 | 35 | 29 | 22 | 4 | 1 | | | | 397 |
| " " 16 | 3 | 50 | 76 | 63 | 58 | 40 | 30 | 17 | 11 | 5 | | 1 | | | | | 354 |
| " " 17 | 6 | 29 | 44 | 54 | 51 | 41 | 20 | 10 | 2 | | | | | | | | 257 |
| " " 18, Male Gram | | | | 2 | 19 | 28 | 43 | 32 | 41 | 36 | 18 | 1 | | | | | 220 |
| " " 18, Fem. " | | | | | 18 | 36 | 37 | 52 | 35 | 33 | 28 | 1 | 4 | | | | 244 |
| " " 18, Primary | 8 | 52 | 51 | 40 | 45 | 13 | 1 | 5 | | | | | | | | | 215 |
| " " 19 | | 16 | 21 | 31 | 20 | 31 | 35 | 29 | 16 | 15 | 5 | 4 | | | | | 223 |
| " " 1, Colored | 2 | 16 | 12 | 14 | 15 | 18 | 17 | 18 | 19 | 7 | 3 | 5 | | | | | 146 |
| " " 2, " | 4 | 6 | 9 | 9 | 4 | 13 | 8 | 7 | 14 | 5 | 4 | 2 | | 1 | | | 86 |
| " " 3, " | 1 | 4 | 11 | 12 | 9 | 18 | 8 | 12 | 6 | 5 | 4 | 4 | 1 | 2 | | | 97 |
| Totals | 110 | 796 | 982 | 1,066 | 1,068 | 1,081 | 1,027 | 958 | 791 | 572 | 300 | 93 | 26 | 3 | | | 8,873 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE D—Concluded.

RECAPITULATION.

| SCHOOLS. | NUMBER OF PUPILS BETWEEN THE AGES OF | | | | | | | | | | | | | | | | TOTALS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 | 10–11 | 11–12 | 12–13 | 13–14 | 14–15 | 15–16 | 16–17 | 17–18 | 18–19 | 19–20 | 20–21 | |
| College and High | | | | | | | | | 29 | 199 | 416 | 472 | 444 | 250 | 84 | 30 | 1,924 |
| Polytechnic Institute | | | | | | | 6 | 41 | 86 | 146 | 172 | 121 | 59 | 28 | 10 | 5 | 674 |
| Male Grammar | 11 | 64 | 58 | 100 | 335 | 872 | 1,308 | 1,591 | 1,495 | 933 | 461 | 147 | 17 | 6 | | | 7,398 |
| Female Grammar | 36 | 88 | 50 | 114 | 420 | 933 | 1,366 | 1,565 | 1,339 | 1,053 | 558 | 188 | 38 | | | | 7,748 |
| English-German | 124 | 799 | 906 | 973 | 977 | 914 | 891 | 734 | 496 | 229 | 78 | 19 | 3 | | | | 7,143 |
| Male Primary | 247 | 1,768 | 2,028 | 2,196 | 1,958 | 1,393 | 866 | 516 | 196 | 51 | 11 | 2 | | | | | 11,232 |
| Female Primary | 262 | 1,905 | 2,062 | 2,190 | 1,877 | 1,307 | 692 | 382 | 145 | 28 | 3 | 3 | 1 | | | | 10,857 |
| Colored | 96 | 620 | 867 | 934 | 975 | 1,037 | 957 | 1,030 | 909 | 665 | 407 | 185 | 54 | 12 | 5 | | 8,753 |
| Annex | 110 | 796 | 982 | 1,066 | 1,068 | 1,081 | 1,027 | 958 | 791 | 572 | 300 | 93 | 26 | 3 | | | 8,873 |
| Totals | 886 | 6,040 | 6,953 | 7,573 | 7,610 | 7,537 | 7,113 | 6,817 | 5,486 | 3,876 | 2,406 | 1,230 | 642 | 299 | 99 | 35 | 64,602 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

## TABLE E.

STATEMENT SHOWING THE NUMBER OF PUPILS IN EACH GRADE.

| SCHOOLS. | FIFTH YEAR. | FOURTH YEAR. | | THIRD YEAR. | | SECOND YEAR. | | FIRST YEAR. | | PREPARATORY. | | | TOTALS. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COLLEGE, HIGH AND POLYTECHNIC. | Males. | Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. | Males, Sixth Grade. | Males, Seventh Grade. | Males, Eighth Grade. | Males. | Females. |
| Balto. City College | 34 | 58 | | 102 | | 178 | | 298 | | | | | 670 | |
| East. Female High | | | 76 | | 81 | | 105 | | 161 | | | | | 423 |
| West. Female High | | | 85 | | 83 | | 194 | | 308 | | | | | 670 |
| Polytechnic Institute | | | | 30 | | 49 | | 41 | | 172 | 158 | 104 | 120 | |
| Polytechnic Inst., Col. | | | | | | 8 | | 17 | | 49 | 22 | 24 | 25 | |
| High, Colored | | 4 | 15 | 4 | 17 | 9 | 49 | 16 | 47 | | | | 33 | 128 |
| Totals | 34 | 62 | 176 | 136 | 181 | 244 | 348 | 372 | 516 | 221 | 180 | 128 | 848 | 1,221 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE E—Continued.

| GRAMMAR SCHOOLS. | Eighth Grade. | Seventh Grade. | Sixth Grade. | Fifth Grade. | Fourth Grade. | TOTALS. |
|---|---|---|---|---|---|---|
| Male No. 1 | 29 | 43 | 53 | 101 | 98 | 324 |
| " " 2 | 37 | 61 | 72 | 140 | 162 | 472 |
| " " 3 | 4 | 10 | 18 | 52 | 89 | 173 |
| " " 4 | 22 | 33 | 85 | 92 | 139 | 371 |
| " " 5 | 22 | 31 | 40 | 84 | 109 | 286 |
| " " 6 | 25 | 34 | 71 | 70 | 107 | 307 |
| " " 7 | 23 | 36 | 71 | 118 | 174 | 422 |
| " " 8 | 30 | 57 | 90 | 115 | 160 | 452 |
| " " 10 | 25 | 38 | 64 | 145 | 206 | 478 |
| " " 11 | 25 | 34 | 56 | 91 | 160 | 366 |
| " " 12 | 16 | 23 | 53 | 98 | 177 | 367 |
| " " 13 | 9 | 22 | 41 | 44 | 63 | 179 |
| " " 15 | 55 | 60 | 78 | 119 | 151 | 463 |
| " " 17 | 27 | 33 | 74 | 119 | 98 | 351 |
| " " 18 | 22 | 46 | 70 | 77 | 96 | 311 |
| " " 19 | 39 | 45 | 93 | 97 | 99 | 373 |
| " " 20 | 49 | 76 | 117 | 160 | 203 | 605 |
| " " 21 | 24 | 46 | 69 | 89 | 144 | 372 |
| Totals | 483 | 728 | 1,215 | 1,811 | 2,435 | 6,672 |
| Female No. 1 | 32 | 39 | 65 | 106 | 91 | 333 |
| " " 2 | 28 | 44 | 67 | 145 | 194 | 478 |
| " " 3 | 13 | 15 | 21 | 36 | 60 | 145 |
| " " 4 | 19 | 29 | 51 | 78 | 132 | 309 |
| " " 5 | 28 | 25 | 45 | 85 | 99 | 282 |
| " " 6 | 55 | 70 | 82 | 103 | 128 | 438 |
| " " 7 | 34 | 55 | 80 | 127 | 142 | 438 |
| " " 8 | 39 | 58 | 94 | 108 | 162 | 461 |
| " " 10 | 15 | 28 | 69 | 120 | 180 | 412 |
| " " 11 | 27 | 51 | 85 | 91 | 130 | 384 |
| " " 12 | 13 | 30 | 63 | 111 | 162 | 379 |
| " " 13 | 24 | 38 | 64 | 69 | 88 | 283 |
| " " 15 | 72 | 68 | 98 | 163 | 182 | 583 |
| " " 17 | 20 | 19 | 66 | 91 | 121 | 317 |
| " " 18 | 42 | 45 | 80 | 85 | 94 | 346 |
| " " 19 | 50 | 84 | 91 | 97 | 121 | 443 |
| " " 20 | 82 | 100 | 136 | 224 | 209 | 751 |
| " " 21 | 42 | 62 | 71 | 127 | 138 | 440 |
| Totals | 635 | 860 | 1,328 | 1,966 | 2,433 | 7,222 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE E—Continued.

| PRIMARY SCHOOLS. | Third Year. | Second Year. | First Year. | Totals. | PRIMARY SCHOOLS. | Third Year. | Second Year. | First Year. | Totals. |
|---|---|---|---|---|---|---|---|---|---|
| Male No. 1... | 80 | 73 | 114 | 267 | Female No. 1.. | 71 | 80 | 137 | 288 |
| " " 2... | 46 | 55 | 129 | 230 | " " 2.. | 30 | 68 | 155 | 253 |
| " " 3... | 116 | 124 | 189 | 429 | " " 3.. | 109 | 115 | 282 | 506 |
| " " 4... | 65 | 80 | 106 | 251 | " " 4.. | 63 | 72 | 128 | 263 |
| " " 5... | 90 | 128 | 203 | 421 | " " 5.. | 117 | 117 | 194 | 428 |
| " " 6... | 100 | 129 | 200 | 429 | " " 6.. | 107 | 122 | 201 | 430 |
| " " 7... | 28 | 54 | 109 | 191 | " " 7.. | 55 | 54 | 116 | 225 |
| " " 8... | 58 | 74 | 112 | 244 | " " 8.. | 59 | 48 | 82 | 189 |
| " " 10... | 42 | 56 | 72 | 170 | " " 10.. | 44 | 57 | 100 | 201 |
| " " 11... | 117 | 139 | 226 | 482 | " " 11.. | 139 | 177 | 202 | 518 |
| " " 12... | 82 | 117 | 162 | 361 | " " 12.. | 91 | 86 | 129 | 306 |
| " " 13... | 34 | 54 | 117 | 205 | " " 13.. | 47 | 62 | 105 | 214 |
| " " 14... | 107 | 84 | 73 | 264 | " " 14.. | 68 | 59 | 87 | 214 |
| " " 15... | 105 | 123 | 122 | 350 | " " 15.. | 105 | 125 | 136 | 366 |
| " " 16... | 58 | 69 | 115 | 242 | " " 16.. | 57 | 76 | 109 | 242 |
| " " 17... | 58 | 75 | 94 | 227 | " " 17.. | 93 | 85 | 114 | 292 |
| " " 18... | 73 | 63 | 73 | 209 | " " 18.. | 55 | 55 | 88 | 198 |
| " " 19... | 41 | 54 | 45 | 140 | " " 19.. | 38 | 46 | 51 | 135 |
| " " 20... | 198 | 235 | 450 | 883 | " " 20.. | 178 | 219 | 323 | 720 |
| " " 21... | 64 | 83 | 116 | 263 | " " 21.. | 55 | 69 | 111 | 235 |
| " " 22... | 76 | 87 | 137 | 300 | " " 22.. | 67 | 112 | 107 | 286 |
| " " 23... | 69 | 85 | 157 | 311 | " " 23.. | 84 | 107 | 153 | 344 |
| " " 24... | 73 | 73 | 156 | 302 | " " 24.. | 65 | 108 | 145 | 318 |
| " " 25... | 41 | 103 | 214 | 358 | " " 25.. | 59 | 71 | 161 | 291 |
| " " 26... | 62 | 64 | 75 | 201 | " " 26.. | 65 | 45 | 85 | 195 |
| " " 27... | 72 | 79 | 154 | 305 | " " 27.. | 72 | 96 | 135 | 303 |
| " " 28... | 74 | 83 | 144 | 301 | " " 28.. | 60 | 94 | 153 | 307 |
| " " 29... | 38 | 63 | 77 | 178 | " " 29.. | 52 | 40 | 81 | 173 |
| " " 30... | 166 | 166 | 245 | 577 | " " 30.. | 142 | 192 | 199 | 533 |
| " " 31... | 28 | 56 | 69 | 153 | " " 31.. | 61 | 42 | 72 | 175 |
| " " 32... | 70 | 93 | 118 | 281 | " " 32.. | 74 | 76 | 95 | 245 |
| " " 33... | 79 | 96 | 145 | 320 | " " 33.. | 81 | 98 | 113 | 292 |
| " " 34... | 35 | 81 | 134 | 250 | " " 34.. | 45 | 68 | 87 | 200 |
| " " 35... | 45 | 52 | 132 | 229 | " " 35.. | 37 | 51 | 100 | 188 |
| " " 36... | 47 | 65 | 105 | 217 | " " 36.. | 33 | 69 | 108 | 210 |
| " " 37... | 46 | 84 | 113 | 243 | " " 37.. | 43 | 59 | 112 | 214 |
| " " 38... | 67 | 83 | 118 | 268 | " " 38.. | 60 | 82 | 119 | 261 |
| " " 39... | 45 | 47 | 88 | 180 | " " 39.. | 17 | 23 | 59 | 99 |
| Totals.... | 2,695 | 3,329 | 5,208 | 11,232 | Totals .... | 2,698 | 3,225 | 4,934 | 10,857 |

TABLE E—Continued.

| MIXED SCHOOLS. | 8th grade | | 7th grade | | 6th grade | | 5th grade | | 4th grade. | | 3d grade. | | 2d grade. | | 1st grade. | | TOTALS. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Males | Fem | Males | Fem | Males | Fem | Males | Fem | Males | Fem. | Males | Fem. | Males | Fem. | Males | Fem | Males | Fem. |
| Male Gram. & Prim. No. 9. | 8 | | 9 | | 16 | | 17 | | 14 | | 17 | | 17 | | 26 | | 124 | |
| Fem. " " " " 9. | | 9 | | 12 | | 18 | | 17 | | 20 | | 16 | | 17 | | 23 | | 132 |
| Male Grammar No. 16. | | | 2 | | 13 | | 32 | | 55 | | 48 | | 74 | | 164 | | 388 | |
| Female " " 16. | | | | 4 | | 15 | | 35 | | 50 | | 72 | | 77 | | 141 | | 394 |
| Grammar " 22. | 10 | 11 | 16 | 18 | 23 | 12 | 40 | 17 | 46 | 21 | | | | | | | 135 | 79 |
| English-German No. 1. | 3 | 15 | 9 | 9 | 9 | 14 | 27 | 17 | 30 | 30 | 27 | 34 | 32 | 37 | 47 | 34 | 184 | 190 |
| " " " 2. | 5 | 3 | 11 | 10 | 29 | 18 | 57 | 42 | 83 | 68 | 93 | 103 | 96 | 105 | 183 | 157 | 557 | 506 |
| " " " 3. | 14 | 19 | 21 | 29 | 46 | 37 | 69 | 69 | 143 | 117 | 148 | 138 | 197 | 165 | 235 | 259 | 873 | 833 |
| " " " 4. | 14 | 11 | 20 | 24 | 50 | 54 | 97 | 66 | 103 | 101 | 117 | 126 | 119 | 103 | 198 | 188 | 718 | 673 |
| " " " 5. | 18 | 15 | 21 | 35 | 38 | 48 | 60 | 50 | 79 | 70 | 102 | 79 | 112 | 126 | 116 | 122 | 546 | 545 |
| " " " 6. | 3 | 3 | 6 | 6 | 23 | 11 | 37 | 22 | 78 | 58 | 102 | 102 | 112 | 134 | 193 | 217 | 554 | 553 |
| " " " 7. | 3 | 1 | 4 | 6 | 6 | 5 | 13 | 17 | 26 | 28 | 56 | 36 | 53 | 42 | 63 | 52 | 224 | 187 |
| Colored Grammar No. 1. | 11 | 37 | 27 | 54 | 26 | 77 | 87 | 108 | | | | | | | | | 151 | 276 |
| " " " 2. | 2 | 15 | 14 | 21 | 34 | 35 | 49 | 42 | | | | | | | | | 99 | 113 |
| " " " 3. | 8 | 9 | 7 | 23 | 25 | 47 | 74 | 62 | | | | | | | | | 114 | 141 |
| Male Colored No. 1. | | | | | | | | | 33 | | 44 | | 54 | | 95 | | 226 | |
| " " " 2 | | | | | | | | | 31 | | 46 | | 70 | | 97 | | 244 | |
| " " " 3 | | | | | | | | | 57 | | 68 | | 77 | | 198 | | 400 | |
| " " " 4 | | | | | | | | | 62 | | 95 | | 106 | | 199 | | 462 | |
| " " " 5 | | | | | 4 | | 13 | | 21 | | 20 | | 41 | | 63 | | 162 | |
| " " " 6 | | | | | | | | | 30 | | 43 | | 43 | | 108 | | 224 | |
| " " " 7 | | | | | 23 | | 18 | | 34 | | 82 | | 119 | | 241 | | 517 | |
| " " " 8 | | | | | | | | | 41 | | 64 | | 81 | | 143 | | 329 | |
| " " " 9 | | | | | | | 35 | | 99 | | 147 | | 187 | | 333 | | 801 | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Male & Fem. Cold. No. 10.. | 2 | 12 | 7 | 17 | 12 | 24 | 16 | 34 | 42 | 42 | 56 | 41 | 51 | 77 | 116 | 130 | 302 | 377 |
| Female Colored No. 1..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 50 | ..... | 54 | ..... | 82 | ..... | 164 | ..... | 350 |
| " " " 2..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 39 | ..... | 33 | ..... | 90 | ..... | 102 | ..... | 264 |
| " " " 3..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 39 | ..... | 72 | ..... | 97 | ..... | 230 | ..... | 438 |
| " " " 4..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 37 | ..... | 66 | ..... | 100 | ..... | 168 | ..... | 371 |
| " " " 5..... | ..... | ..... | ..... | ..... | ..... | 7 | ..... | 13 | ..... | 31 | ..... | 31 | ..... | 41 | ..... | 74 | ..... | 197 |
| " " " 6..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 23 | ..... | 33 | ..... | 47 | ..... | 140 | ..... | 243 |
| " " " 7..... | ..... | ..... | ..... | ..... | ..... | 24 | ..... | 28 | ..... | 76 | ..... | 118 | ..... | 150 | ..... | 339 | ..... | 735 |
| " " " 8..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 37 | ..... | 73 | ..... | 68 | ..... | 154 | ..... | 332 |
| " " " 9..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 48 | ..... | 64 | ..... | 144 | ..... | 220 | ..... | 409 | ..... | 885 |
| Totals..... | 101 | 160 | 174 | 268 | 377 | 446 | 741 | 687 | 1,107 | 1,001 | 1,375 | 1,371 | 1,641 | 1,778 | 2,818 | 3,103 | 8,334 | 8,814 |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE E—Continued.

| ANNEX SCHOOLS. | 8th grade | | 7th grade. | | 6th grade. | | 5th grade. | | 4th grade. | | 3d grade. | | 2d grade. | | 1st grade. | | TOTALS. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Males. | Fem. | Males. | Fem. | Males. | Fem. | Males | Fem | Males | Fem. | Males. | Fem. | Males | Fem. | Males | Fem | Males | Fem. |
| Annex No. 1 | | | | | 7 | 9 | 8 | 14 | 31 | 22 | 23 | 24 | 29 | 37 | 43 | 44 | 141 | 150 |
| " " 2 | 19 | 25 | 33 | 41 | 47 | 46 | 67 | 58 | 64 | 73 | 69 | 80 | 67 | 60 | 118 | 105 | 484 | 488 |
| " " 3, Male | 27 | | 34 | | 39 | | 71 | | 93 | | | | | | | | 264 | |
| " " 3, Female | | 25 | | 39 | | 53 | | 112 | | 127 | | | | | | | | 356 |
| " " 3, "Prim. | | | | | | | | | | | | 86 | | 105 | | 154 | | 345 |
| " " 4 | | | | | | | | | | | 50 | 46 | 91 | 77 | 108 | 82 | 249 | 205 |
| " " 5 | | | | | | | | | | | 35 | 31 | 41 | 33 | 78 | 62 | 154 | 126 |
| " " 6 | 4 | 15 | 11 | 27 | 20 | 39 | 35 | 43 | 47 | 62 | | | | | | | 117 | 186 |
| " " 7 | 1 | 4 | 10 | 7 | 12 | 13 | 23 | 20 | 42 | 28 | 33 | 31 | 36 | 43 | 34 | 56 | 191 | 202 |
| " " 8 | 10 | 7 | 24 | 16 | 38 | 30 | 35 | 44 | 61 | 69 | 72 | 75 | 123 | 104 | 153 | 133 | 516 | 478 |
| " " 9 | 2 | | 9 | 5 | 9 | 13 | 18 | 24 | 23 | 18 | 19 | 20 | 25 | 24 | 52 | 30 | 157 | 134 |
| " " 10 | 7 | 11 | 7 | 18 | 15 | 16 | 20 | 22 | 15 | 26 | | | | | | | 64 | 93 |
| " " 11 | 10 | 15 | 11 | 9 | 32 | 16 | 35 | 27 | 47 | 40 | 51 | 41 | 46 | 47 | 62 | 73 | 294 | 268 |
| " " 13 | 7 | 5 | 10 | 5 | 11 | 27 | 40 | 46 | 48 | 65 | 81 | 79 | 95 | 89 | 122 | 123 | 414 | 439 |
| " " 14 | 2 | 1 | 6 | 7 | 3 | 5 | 9 | 10 | 6 | 10 | 9 | 12 | 13 | 2 | 10 | 14 | 58 | 61 |
| " " 15 | 10 | 6 | 14 | 15 | 15 | 16 | 20 | 27 | 29 | 31 | 28 | 34 | 37 | 27 | 42 | 46 | 195 | 202 |
| " " 16 | | | | | | | | | | | 78 | | 109 | | 167 | | 354 | |
| " " 17 | | | | | | | | | | | 35 | 31 | 31 | 38 | 49 | 73 | 115 | 142 |
| " " 18, M. Gram. | 20 | | 41 | | 47 | | 53 | | 59 | | | | | | | | 220 | |
| " " 18, F. " | | 28 | | 41 | | 48 | | 61 | | 66 | | | | | | | | 244 |
| " " 18, Primary | | | | | | | | | | | 22 | 29 | 33 | 24 | 55 | 52 | 110 | 105 |
| " " 19 | | | | | 11 | 8 | 20 | 16 | 38 | 14 | 11 | 18 | 25 | 15 | 25 | 22 | 130 | 93 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annex No. 1, Colored | | | 2 | 4 | 8 | 3 | 7 | 9 | 10 | 10 | 22 | 16 | 28 | 27 | 77 | 69 | | |
| " " 2, " | | | | | 2 | | 8 | 10 | 6 | 5 | 16 | 9 | 20 | 10 | 52 | 34 | | |
| " " 3, " | | | 1 | 2 | 3 | 1 | 3 | 5 | 3 | 6 | 5 | 19 | 11 | 24 | 14 | 57 | 40 | |
| Totals, males | 119 | 210 | 310 | 465 | 623 | 638 | 858 | 1,190 | 4,413 | | | | | | | | | |
| " females | 112 | 231 | 346 | 530 | 673 | 657 | 761 | 1,120 | 4,460 | | | | | | | | | |
| Male Gram. Schools | 183 | 728 | 1,215 | 1,811 | 2,435 | 6,672 | | | | | | | | | | | | |
| Fem. " " | 635 | 860 | 1,328 | 1,966 | 2,133 | 7,222 | | | | | | | | | | | | |
| Male Prim. " | | | | | 2,695 | 3,329 | 5,208 | 11,232 | | | | | | | | | | |
| Fem. " " | | | | | 2,698 | 3,225 | 1,934 | 10,857 | | | | | | | | | | |
| Mixed " | 101 | 160 | 174 | 268 | 377 | 446 | 741 | 687 | 1,107 | 1,001 | 1,375 | 1,371 | 1,641 | 1,778 | 2,818 | 3,103 | 8,331 | 8,814 |
| Totals, males | 703 | 1,112 | 1,902 | 3,017 | 4,165 | 4,708 | 5,828 | 9,216 | 30,651 | | | | | | | | | |
| " females | 937 | 1,359 | 2,120 | 3,183 | 4,107 | 4,726 | 5,764 | 9,157 | 31,353 | | | | | | | | | |

TABLES ACCOMPANYING THE SUPERINTENDENT'S REPORT.

TABLE E—Concluded.

RECAPITULATION.

| | MALES. | FEMALES. | TOTALS. |
|---|---|---|---|
| Number in fifth year, Baltimore City College. | 34 | ..... | 34 |
| " in fourth year, B. C. C. and High... | 62 | 176 | 238 |
| " in third year, B. C. C., High and Polytechnic..... | 136 | 181 | 317 |
| " in second year, B. C. C., High and Polytechnic..... | 244 | 348 | 592 |
| " in first year, B. C. C., High and Polytechnic..... | 372 | 516 | 888 |
| Totals..... | 848 | 1,221 | 2,069 |
| Number in Grammar, eighth grade..... | * 831 | 937 | 1,768 |
| " " " seventh grade..... | †1,292 | 1,359 | 2,651 |
| " " " sixth grade..... | ‡2,123 | 2,120 | 4,243 |
| " " " fifth grade..... | 3,017 | 3,183 | 6,200 |
| " " " fourth grade..... | 4,165 | 4,107 | 8,272 |
| Totals..... | 11,428 | 11,706 | 23,134 |
| Number in Primary, third grade..... | 4,708 | 4,726 | 9,434 |
| " " " second grade..... | 5,828 | 5,764 | 11,592 |
| " " " first grade..... | 9,216 | 9,157 | 18,373 |
| Totals..... | 19,752 | 19,647 | 39,399 |
| Number in High..... | 848 | 1,221 | 2,069 |
| " in Grammar..... | 11,428 | 11,706 | 23,134 |
| " in Primary..... | 19,752 | 19,647 | 39,399 |
| Totals..... | 32,028 | 32,574 | 64,602 |

*Including number in Preparatory Dep't, Polytechnic Institute, 128.
†Including number in Preparatory Dep't, Polytechnic Institute, 180.
‡Including number in Preparatory Dep't, Polytechnic Institute, 221.

# REPORT

—— OF THE ——

# ASSISTANT SUPERINTENDENT OF PUBLIC INSTRUCTION.

BALTIMORE, January 1, 1898.

*Henry A. Wise, Superintendent of Public Instruction:*

SIR: I herewith submit my report of the work and condition of the primary department of the public school system of Baltimore City for your consideration.

In previous reports the physical condition of our primary schools was thoroughly described and commented upon; but as very little has been done either to remove or remedy the evils therein mentioned, and at present still existing, I will again outline the improvements necessary to better their condition.

The greatest evil in connection therewith is the lack of proper and healthful accommodations for the natural needs of the children. In some cases these provisions are not only inconvenient, but indecent. The building up of moral character is the central aim of public school education. To this end we should remove from our schools everything that has a tendency to lower and deprave the imaginations and tastes of our pupils. Our buildings should not only be specimesn of fine architecture and purely artistic designs, but cleanliness within and without should characterize every school building in our city. To this end I now desire to name in detail such buildings as should be at once improved by the removal of the out-door closets and the introduction of the flush-closet system. Nos. 1, male and female, 2, 3, 5, 6, 7, 8, 10, 11, 12, 14, 15, 16, 17, 18, 20, 21, 22, 23, 26, 27, 28, 29 and 39.

This improvement is necessary for the comfort, health and morals of the children attending the public schools, and suggests the highest motive for action on the part of the city government. But will it be done? I trow not. This evil has existed for many years past. Nothing has been done, and the same excuse for inaction in the past, "no funds," will be given again for inaction. Money can be found for other and much less important purposes. The cost of unnecessarily opening or repaving a street—frequently done merely to gratify some individual or locality—would produce for every building above mentioned a healthy and cleanly environment. It would be much better if certain buildings were replaced by new and modernly constructed ones.

Nos. 2, 6, 7, 10, 17, 22 and 26 are buildings of that character. No. 3 Primary School should have possession of the entire building now partly occupied by Grammar No. 3. Nos. 6, 12, 17, 23 and 28 can be much improved by the purchase of adjoining property, upon which could be erected an addition suitably constructed to increase the accommodations so greatly needed in these schools at the present time. These suggestions are in the direction of economy and health—health to the pupils and teachers of the schools, and economy in the expenditure of public funds—for it it is a waste to postpone doing that which should be done quickly.

The action of the Board in giving greatly increased facilities for instruction in language by placing upon the book-list reference books for teachers and an extended supply of supplementary reading matter for the pupils is to be greatly commended. Wherever these facilities have been made use of the educational conditions have greatly improved. Owing to the lack of funds the schools could only to a limited degree avail themselves of these advantages. During the coming year better results may be fairly predicted, for the reason that the schools can at the beginning of the year, with their renewed appropriations, furnish the pupils with a greatly needed supply of reading material. The purpose of supplementary reading is to enable the child after having, from the regular class exercises, fairly well secured the mechanical utterances, to reach after the thought contained in sentences and paragraphs and the ability to give proper expression to that

thought. It is only after the readiness to do this has been acquired that his interest can be aroused and his curiosity excited, which are so necessary to lead him to the habit of observation and reflection.

The introduction of vertical writing has done much to improve the penmanship of the pupils. It has increased the attention of teacher and pupil to this very useful branch of school work. Two things are to be acquired in the use of the pen—legibility and rapidity. After the habit of securing the former has been acquired the latter will follow in due time and proportion. Some contend that rapidity cannot be acquired in the use of vertical writing. I have always found that whatever man has the ability to do, quickness and thoroughness of doing that one thing can be secured by constant application.

There are a few difficulties in the way of teaching vertical writing. First, the unwillingness of the teacher to depart from the slant system which she has been using since her connection with the schools. In order to secure proper results the pupil should be required to use the system, not only in the copy-book, but in every exercise required to be done in the class. The teacher herself, notwithstanding her indisposition to do so, should be required to use in all her school work the same style of writing. Good work will not be accomplised in any school in which the example of the teacher may be departed from on the part of the pupil. Secondly, the action of the Board in placing in the schools more than one system is to be regretted. It would have been much to the advantage of the pupils to have placed but one system in the course of study. Singleness of purpose and action, so necessary in teaching, would have been obtained. The inconsistency and irregularity in teaching writing now existing would not have any existence. In the same school the pupils of different classes are taught two different systems. In some classes the system is not taught at all. The teacher has a system of her own which she thinks is better than that prescribed by the Board. I hope for the coming scholastic year that some one system will be prescribed for use, and that system be strictly adhered to by teacher and pupil.

The only objection to the use of paper instead of slates in the class-rooms is the additional expense. Every other consideration demands its use Disgusting habits acquired by the cleaning of slates, the noise and disorder occasioned by their almost constant use, and the great disadvantage to the teacher and the valuable time wasted in the examination of work done by the pupils, which could be used in profitable teaching, can all be removed by the use of paper and pencil. In addition slates are seldom used after school life, and the use of pen, pencil and paper should be early acquired. Much of the bad writing in our schools in the past can fairly be attributed to the use of slates. For these reasons, in classes using paper only, the teachers and pupils demand its continuance. While it may be slightly more expensive, the cost may be very materially reduced. The paper now in use is of too high a cost for the ephemeral purposes for which it is intended, and could be materially lessened without detriment to the teaching of the class. I trust that, if the Board decides to continue the use of slates, that paper be also continued for use by those schools that desire it.

The public schools of Baltimore for the past few years have experienced an upheaval with reference to their management and changes in educational lines. When the forces causing this condition cease to act, there is no doubt but that we will find the system on a higher plane, with increased opportunities for essential improvement. This is true, not only with reference to the material equipment of the system, but also with reference to the educational demands of an advanced civilization. Many ideas of uncertain educational advantages are undergoing the crucial test of practical experience in the class-room. The result of this experience will separate the good from the bad and enable us to see more clearly that which is of good report.

These conditions, while they have to a very great extent embarrassed our teaching force, have also brought them face to face with the necessity of more fully equipping themselves to meet the responsibilities of their positions. The storm will purify the atmosphere. Out of it will come greatly increased opportunities for

future development. Much that is bad or unsuited for educational progress will have disappeared and the fittest will have survived, endowed with a richer experience, and consequently a greater power for professional labor.

During the past year much has been done to improve our condition. The schools have worked their way more securely into popular favor. They have more truly become the people's schools for all classes, patronized by all, irrespective of party or sect. Much of this is due to our excellent teaching force.

As a class they have demonstrated by their devotion to duty, and their efforts to reach after advanced professional attainments, their fitness for the responsibility placed in their hands. The grade association as now formed constitutes an excellent school for professional attainments. The time given by the Board for these meetings has secured, what was heretofore lacking, an almost universal attendance. There has been very little disposition on the part of the members to refuse or shirk the duties belonging to them as teachers. They willingly and cheerfully accept the conditions which are so unfamiliar to them by reason of lack of training in this particular line of work. I predict much good to our schools through the instrumentality of these associations. It is only through efficiency of the teachers that our obligations to the public can be properly and efficiently fulfilled. Boards may legislate, but if their legislation is not in the direction of pure professional service the teacher must correct the defect, or the system must suffer. How necessary, therefore, to have and perpetuate an educated and professionally inclined corps of teachers in any public school system. In order to accomplish this we should be careful to prescribe proper conditions for those who seek admission into public school service. The mere fact that a young lady has completed a high school course does not fully indicate that she is fitted to become a teacher. She may after a time acquire through constant practice in the class-room such a professional ability. Others have done so, but many others have utterly failed and disappeared. The educational condition of a graduate of an academic school has been secured through mental processes utterly at

variance with the attitude of the teacher. She, notwithstanding the efforts of the teacher to the contrary, is simply recording in her mind the facts as presented to her through books and statements of her instructor. Her attitude is that of a learner of facts—a mere memorizer. Put her in the class-room and she will continue that same attitude with her pupils. This is the reason we have so many so-called teachers. How often do we hear teachers say they never understood subtraction, percentage, history, etc., until they were called upon to teach these subjects. The reason of this is that they had never learned them from the teacher's standpoint. To prevent this waste of time at the expense of the pupil a training school for teachers should be established. This is the only logical way of securing the best and most meritorious material for our schools.

While the taking of the person who stands first on the list of eligibles by reason of the percentage obtained at graduation is the best thing that can be done under our present conditions, and frees us from evils heretofore existing, still it is a mere makeshift in settling the difficulty as presented to us at present. The heroic method is for the Board to establish by legislative enactment the means to enable persons possessed of sufficient academic knowledge to fit themselves as teachers before entering our schools, and then to make that condition a necessary requirement for employment in our service. This to my mind is the only safe way to secure for the future a competent supply of teaching ability for our public schools. There is, in my opinion, one admonition to be presented in following this course, which I will venture to mention. It is this: In establishing a school of this kind it should be the best of the kind regardless of cost. A poorly-equipped school for the training of teachers is worse than none. It is not only expensive because you are paying something for nothing, but it is utterly destructive of good teaching. The true idea in the establishment of such a school should be the securing of the best teaching talent regardless of any other consideration. To accomplish this is worthy of the ambition of every member of the Board.

In conclusion, I desire to thank the members and officers of the

Board for marked kindness toward me in my efforts to discharge the duties of my position. Their confidence and trust have materially lightened my labors and made my daily task more a pleasure than a dull, lifeless duty. Ever since my occupancy of the position I now hold the teachers have been my co-laborers in every effort to improve the public school system of Baltimore. In addition to this I have always felt that I have not only had their co-operation, but their heartfelt sympathy and true friendship. For this, in addition to their well-known devotion to duty, they have my thanks.

Respectfully,

JOHN E. McCAHAN,

*Assistant Superintendent.*

# Report of the Superintendent of Supplies.

BALTIMORE, January 18, 1898.

*Mr. Chas. H. Bond, Chairman Committee on Accounts:*

DEAR SIR: I beg leave to submit the following as my report for work done under my supervision, as per order of the Board, June 29, 1897. I have had the furniture in all the school-houses, including the Annex and branch schools, put in thorough condition, having had renovated, by contract, 7,127 desks, at a cost of 46 1-5 cents each. In addition to this I also had all the desks in the other schools (not done by contract) cleaned and well fastened to the floors, and in many cases new tops put on and rear seats repaired. By order of the Board I have also had 740 desks and 132 rear seats changed from double to single, at a cost of 98 cents, as per contract, which were placed in the following schools:

| | |
|---|---|
| No. 20 Female Primary | 55 |
| No. 20 Male Grammar | 14 |
| No. 1 Female Primary | 80 |
| No. 2 Male and Female Primary | 87 |
| No. 7 Male Primary | 70 |
| No. 1 Male Primary | 35 |
| No. 12 Male and Female Primary | 70 |
| No. 33 Male and Female Primary | 82 |
| No. 1 English-German | 85 |
| No. 12 Female Grammar | 20 |
| No. 19 Annex | 25 |

Single desks have also been placed in English-German No. 4, Colored No. 7, and Annex No. 11. Several other schools have also been supplied with from two to five single desks each.

The following schools have been supplied with double desks, as follows:

| | |
|---|---|
| No. 10 Colored (Branch) | 4 rooms. |
| No. 10 Colored | 1 room. |
| No. 4 Colored (Grammar) | 100 desks. |
| No. 8 Annex | 30 desks. |
| No. 15 Male Grammar | 1 room. |
| No. 36 Male Primary | 1 room. |
| No. 38 Male Primary | 1 room. |
| No. 4 Female Grammar | 1 room. |
| No. 6 Female Grammar (Branch) | 1 room. |
| No. 4 Colored (Branch) | 1 room. |
| No. 32 Male Primary (Branch) | 2 rooms. |
| No. 15 Annex | 1 room. |
| No. 30 Female Primary | 1 room. |
| No. 5 English-German | 1 room. |

Additional desks have also been placed in No. 10 Grammar, Male and Female Primary No. 28, Female Primary No. 7, English-German No. 2, No. 16 Grammar, and two rooms of the Polytechnic Institute.

Under the instructions of the Local Committee I have also placed in position all the furniture in Colored School No. 9, including 797 double desks, 18 small book-cases, 16 assistants' platforms, 2 principals' desks, 18 assistants' desks, as well as a number of wardrobes. The only new furniture put in this school were two principals' platforms. The most of furniture used in this school was a part of the old Colored No. 9, the balance being collected from various sources, all of which was renovated and put in first-class condition.

No. 39 Male and Female Primary was organized during the summer, and was furnished with furniture from the warehouse and other old material collected from different sources. Three hundred and twenty desks were placed in this school without the use of any new furniture. No. 18 Annex, a new building, was, by instructions of the Local Committee, fitted up with single desks, as follows: 347 Nos. 2 and 3, and we had to place in position 36 double desks in two of the waiting-rooms on account of the crowded condition of this school after the first month of its opening. No. 3 Female Annex, another new building, was also fitted up with 561 single desks. All of the desks in these Annex schools are old ones collected from various schools and warehouse, which were put in first-class condition. Only 512 new desks were used, 290 in No. 18 Annex, and 222 in No. 3 Female Annex.

Under instructions of said resolutions there was collected from the various schools and the old warehouse the following furniture: Female Primary and Grammar No. 1, 600 single desks; Male Primary and Grammar No. 19, 100 single desks; from the old warehouse, about 1,000 double and single desks, and from the several other schools, 550, making in all 2,250 desks. Also the following material:

Three hundred chairs, 60 slate blackboards, 30 pairs of blackboard steps, 6 principals' desks, 30 assistants' desks, 30 stoves, 60 guards for stoves, 60 assistants' platforms, 50 small book-cases, 10 large book-cases, 8 extension tables, 12 organs, 40 umbrella stands.

The most of this furniture has been put in good condition, and has been distributed to several different schools. The following desks have been removed from the schools named below, which were not in use, and placed in other schools: Annex No. 9, two rooms; Male Primary No. 31, one room, and Colored Male Primary No. 1, one room; total amount of desks collected from all sources being about 2,700.

The following branch schools were vacated during the year and the furniture removed: Annex No. 18, Female Annex No. 3, English-German No. 7, Male Primary No. 11, and branch of Colored No. 9, Pennsylvania avenue. There were 10 wall book-cases removed from the old City College, which were put in good condition and distributed as follows: Male Grammar School No. 3, one; Male Primary School No. 1, one; Male and Female Primary School No. 33, two; Annex No. 18, Primary, one. There were also 12 mineral cabinets collected and distributed to the several schools.

The following new branches have been rented and fitted up:

Branch No. 32, Male Primary.....2 rooms.
Branch No. 4, Colored.....1 room.
Branch No. 10, Colored.....4 rooms.
Branch No. 7, English-German.....6 rooms.

During the season it was necessary to rearrange the desks in about forty rooms of the several schools in order to get the proper light.

We now have in the warehouse the following material:

Five book-cases, 150 chairs, 2 extension tables, 25 old-style desks, 35 Soper desks, 24 single desks, 173 single and double-high school desks, 10 umbrella stands, 1 large step-ladder, 11 stoves, 11 platforms, 30 stove screens, 20 old slate blackboards, 25 old wood blackboards, 6 organs, in good condition.

Also a large lot of miscellaneous articles.

In conclusion, I would add that my association with members and officers of the Board has been pleasant and agreeable. The kindness and consideration shown me by the principals and teachers have made my duties very pleasant and agreeable. I take this opportunity to thank the officers and members of the Board, and also the principals and teachers, for their uniform kindness to me during the past year.

Following will be found an inventory of the heating apparatus and furniture now in the schools appraised upon two-thirds of its value. Very respectfully,

JAMES F. MORGAN,
*Superintendent of Supplies.*

INVENTORY OF FURNITURE, HEATING APPARATUS, ETC., IN THE SCHOOLS DECEMBER 31, 1897.

| SCHOOLS. | Number of Seats. | Rear Seats. | Settees. | Teachers' Desks. | Chairs. | Book Cases. Large. | Book Cases. Small. | Black Boards. | Clocks. | Organs. | Pianos. | Wardrobes. | Umbrella Stands. | Wash Stands. | Tables. | Furnaces. | Stoves. | Screens. | Estimated Valuation. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Baltimore City College | 939 | 56 | 78 | 16 | 130 | 19 | 1 | 16 | 13 | 1 | 1 | 2 | .... | ... | 8 | 4 | .... | .... | $6,850 00 |
| Eastern Fem. High School. | 416 | 25 | 84 | 24 | 125 | 7 | .... | 22 | 3 | .. | 2 | .. | .... | .... | 12 | 4 | 2 | 2 | 5,340 00 |
| Western Fem. High School. | 798 | 90 | 159 | 18 | 115 | 16 | 7 | wall | 26 | 1 | 1 | .. | .... | .... | 9 | Steam | .... | .... | 9,750 00 |
| Balto. Polytechnic Institute | 422 | 46 | .... | 12 | 954 | 14 | .... | wall | 13 | 1 | .. | .. | .... | .... | 16 | 2 | .... | .... | 5,356 00 |
| Col'd Man'l Train'g School. | 225 | 12 | .... | 11 | 67 | 8 | 6 | 25 | 1 | 1 | .. | 1 | .... | .... | 1 | ..... | 15 | 22 | 900 00 |
| Totals | 2,800 | 229 | 321 | 81 | 1,391 | 64 | 14 | 63 | 56 | 4 | 4 | 3 | .... | .... | 46 | 10 | 17 | 24 | $28,196 00 |
| Male Grammar No. 1 | 403 | 64 | .... | 10 | 36 | 2 | 6 | 34 | 2 | 1 | .. | 1 | 1 | 1 | 1 | 6 | 1 | 2 | $3,300 00 |
| " " " 2 | 420 | 42 | .... | 10 | 30 | 2 | 10 | wall | 2 | 1 | .. | 2 | 6 | 1 | 1 | Smead | 1 | 1 | 2,320 00 |
| " " " 3 | 212 | 20 | 2 | 7 | 19 | 1 | 10 | 18 | 1 | 1 | .. | 2 | 2 | 1 | 1 | 6 | 1 | 1 | 1,700 00 |
| " " " 4 | 352 | 29 | 2 | 8 | 28 | 1 | 7 | 28 | 1 | 1 | .. | 2 | 1 | 1 | 2 | ..... | 8 | 16 | 1,400 00 |
| " " " 5 | 364 | 26 | .... | 7 | 18 | 3 | 6 | 20 | 2 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 8 | 14 | 1,200 00 |
| " " " 6 | 504 | 44 | .... | 12 | 24 | 1 | 9 | 24 | 1 | 1 | .. | 1 | 6 | 1 | 1 | 5 | 3 | 2 | 2,650 00 |
| " " " 7 | 500 | 38 | .... | 9 | 24 | 2 | 10 | 25 | 1 | 1 | .. | 1 | 2 | 1 | 1 | 5 | 1 | 2 | 2,220 00 |
| " " " 8 | 484 | 56 | 2 | 10 | 44 | 3 | 15 | wall | 2 | 1 | .. | 2 | 3 | 1 | 1 | Smead | 1 | .... | 2,850 00 |
| " G. & P. " 9 | 166 | 14 | 3 | 10 | 18 | 1 | 7 | 20 | 2 | 1 | .. | 1 | 1 | 1 | 1 | ..... | 5 | 8 | 600 00 |
| " Grammar " 10 | 480 | 39 | 1 | 8 | 26 | 3 | 12 | 36 | 2 | 1 | .. | 1 | 1 | 1 | 1 | ..... | 8 | 16 | 1,550 00 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Male Grammar No. 11 | 424 | 32 | | 8 | 24 | 2 | 7 | 15 | 1 | 1 | | 1 | 1 | 1 | 1 | 6 | 1 | 2 | 1,830 | 00 |
| " " " 12 | 456 | 31 | | 9 | 24 | 1 | 6 | 17 | 1 | 1 | | 2 | 2 | 1 | 1 | 5 | 3 | 6 | 1,900 | 00 |
| " " " 13 | 250 | 29 | 10 | 8 | 22 | 3 | 4 | 20 | 1 | 1 | | 1 | 2 | 1 | 1 | | 7 | 12 | 1,125 | 00 |
| " " " 15 | 655 | 63 | | 16 | 36 | 12 | 1 | 48 | 2 | 1 | | 1 | 4 | 1 | 1 | 5 | 1 | 2 | 2,850 | 00 |
| " " " 16 | 452 | 32 | | 8 | 30 | 2 | 7 | 24 | 1 | 1 | | 1 | 1 | 1 | 1 | 6 | 1 | 2 | 2,700 | 00 |
| " " " 17 | 410 | 30 | | 10 | 32 | 2 | 7 | 23 | 1 | 1 | | 1 | 1 | 1 | 1 | | 10 | 20 | 1,300 | 00 |
| " " " 18 | 351 | 35 | | 17 | 20 | 2 | 6 | wall | 1 | 1 | | 1 | 2 | 1 | 1 | Smead | 1 | 1 | 2,560 | 00 |
| " " " 19 | 389 | 32 | | 8 | 38 | 2 | 8 | wall | 2 | 2 | | 1 | 2 | 1 | 1 | Smead | 1 | 1 | 2,470 | 00 |
| " " " 20 | 780 | 32 | | 11 | 38 | 2 | 10 | wall | 1 | 1 | | 1 | 6 | 1 | 1 | Smead | 1 | 1 | 2,860 | 00 |
| " " " 21 | 500 | 40 | | 10 | 36 | 2 | 8 | 26 | 2 | 1 | | 2 | 1 | 1 | 1 | | 13 | 24 | 1,650 | 00 |
| " " " 22 | 338 | 28 | 3 | 8 | 19 | 2 | 4 | 23 | 1 | 1 | | 1 | 2 | 1 | 1 | 4 | 2 | 3 | 1,700 | 00 |
| Totals, Male Grammar | 8,890 | 756 | 23 | 204 | 586 | 51 | 160 | 401 | 30 | 22 | | 27 | 49 | 21 | 22 | 48 | 78 | 136 | $42,735 | 00 |

INVENTORY OF FURNITURE, HEATING APPARATUS, ETC., IN THE SCHOOLS.—Continued.

| SCHOOLS. | Number of Seats. | Rear Seats. | Settees. | Teachers' Desks. | Chairs. | Book Cases. Large. | Book Cases. Small. | Black Boards. | Clocks. | Organs. | Pianos. | Wardrobes. | Umbrella Stands. | Wash Stands. | Tables. | Furnaces. | Stoves. | Screens. | Estimated Valuation. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Female Grammar No. 1... | 492 | 40 | 38 | 10 | 26 | 3 | 5 | 36 | 1 | .. | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 2 | $2,850 00 |
| " " " 2... | 531 | 42 | .... | 10 | 30 | 3 | 10 | wall | 1 | 1 | .. | 1 | 8 | 1 | 1 | a | 1 | 1 | 2,150 00 |
| " " " 3... | 214 | 19 | .... | 6 | 17 | 2 | 7 | 20 | 1 | 1 | .. | 1 | 1 | 1 | 1 | a | 1 | 7 | 900 00 |
| " " " 4... | 362 | 26 | 15 | 7 | 24 | 2 | 8 | 26 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | ..... | 8 | 16 | 1,500 00 |
| " " " 5... | 356 | 30 | 4 | 8 | 15 | 2 | 6 | 20 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 7 | 16 | 1,250 00 |
| " " " 6... | 516 | 34 | 12 | 9 | 45 | 2 | 6 | 28 | 1 | .. | 1 | 2 | 4 | 1 | 1 | a | 3 | 4 | 1,700 00 |
| " " " 7... | 582 | 46 | .... | 12 | 36 | 3 | 13 | 29 | 2 | 1 | .. | 1 | 6 | 1 | 1 | a | 4 | 8 | 2,750 00 |
| " " " 8... | 474 | 46 | 8 | 10 | 40 | 2 | 14 | wall | 1 | 1 | .. | 1 | 2 | 1 | 1 | a | 1 | 2 | 2,400 00 |
| " G. & P. " 9... | 174 | 10 | .... | 6 | 15 | 2 | 1 | 10 | 1 | 1 | .. | 1 | 3 | 1 | 1 | ..... | 7 | 12 | 750 00 |
| " Grammar " 10... | 492 | 29 | 3 | 9 | 24 | 5 | 4 | 32 | 1 | 1 | .. | 1 | 1 | 1 | 1 | ..... | 8 | 16 | 1,500 00 |
| " " " 11... | 420 | 28 | .... | 7 | 26 | 2 | 7 | 18 | 2 | 1 | .. | 2 | 5 | 1 | 1 | a | 1 | 1 | 1,250 00 |
| " " " 12... | 458 | 28 | 5 | 9 | 36 | 1 | 6 | 24 | 1 | 1 | .. | 4 | 2 | 1 | 2 | a | 3 | 6 | 1,300 00 |
| " " " 13... | 362 | 32 | 7 | 7 | 24 | 2 | 7 | 22 | 1 | 1 | .. | 1 | 4 | 1 | 1 | ..... | 7 | 14 | 1,225 00 |
| " " " 15... | 606 | 45 | .... | 11 | 35 | 2 | 10 | 14 | 2 | .. | 1 | 2 | 4 | 1 | 1 | 4 | 2 | 2 | 2,700 00 |
| " " " 16... | 422 | 32 | .... | 8 | 30 | 2 | 7 | 24 | 1 | 1 | .. | 4 | 2 | 1 | 1 | a | 1 | 2 | 1,850 00 |
| " " " 17... | 440 | 30 | .... | 10 | 32 | 2 | 7 | 23 | 1 | 1 | .. | 1 | 4 | 1 | 1 | ..... | 10 | 18 | 1,550 00 |
| " " " 18... | 367 | 35 | .... | 7 | 20 | 2 | 6 | wall | 1 | 1 | .. | 1 | 6 | 1 | 1 | a | 1 | .... | 2,400 00 |
| " " " 19... | 498 | 45 | .... | 9 | 38 | 2 | 8 | wall | 1 | 1 | .. | 1 | 4 | 1 | 1 | a | 1 | .... | 2,700 00 |
| " " " 20... | 696 | 48 | .... | 12 | 48 | 3 | 12 | wall | 1 | 1 | .. | 1 | 5 | 1 | 1 | a | ... | .... | 2,575 00 |
| " " " 21... | 480 | 31 | .... | 10 | 24 | 1 | 10 | 32 | 2 | 1 | .. | 1 | 3 | 1 | 1 | ..... | 10 | 20 | 1,550 00 |
| Totals, Fem. Grammar.. | 8,940 | 676 | 92 | 177 | 585 | 45 | 154 | 358 | 24 | 17 | 4 | 29 | 70 | 20 | 22 | 10 | 77 | 147 | $36,850 00 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| English-German No. 1..... | 686 | 42 | 2 | 15 | 25 | 7 | 4 | 28 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 15 | 30 | $1,950 | 00 |
| " " " 2..... | 1,112 | 72 | .... | 20 | 43 | 2 | 16 | 44 | 2 | 2 | .. | 4 | 4 | 2 | 4 | 7 | 2 | 4 | 3,800 | 00 |
| " " " 3..... | 1,714 | 81 | .... | 26 | 48 | 2 | 19 | 49 | 2 | 2 | .. | 2 | 4 | 2 | 2 | 2 | 14 | 26 | 3,900 | 00 |
| " " " 4..... | 1,380 | 84 | .... | 24 | 50 | 2 | 16 | 46 | 2 | 2 | .. | 4 | 6 | 2 | 2 | 6 | 2 | 4 | 4,300 | 00 |
| " " " 5..... | 1,107 | 88 | .... | 26 | 58 | 2 | 18 | wall | 2 | 2 | .. | 2 | 4 | 2 | 2 | Smead | 1 | .... | 4,500 | 00 |
| " " " 6..... | 1,314 | 84 | .... | 22 | 58 | 4 | 20 | wall | 2 | 2 | .. | 4 | 20 | 2 | 2 | Smead | 5 | 10 | 5,400 | 00 |
| " " " 7..... | 468 | 23 | .... | 6 | 22 | 2 | 6 | 18 | 2 | 1 | .. | 2 | 6 | 2 | 2 | ..... | 7 | 14 | 1,250 | 00 |
| Totals, Eng.-Ger..... | 7,781 | 477 | 2 | 137 | 304 | 21 | 99 | 185 | 13 | 12 | .. | 19 | 46 | 13 | 15 | 15 | 46 | 68 | $25,100 | 00 |

INVENTORY OF FURNITURE, HEATING APPARATUS, ETC., IN THE SCHOOLS - Continued.

| SCHOOLS. | Number of Seats. | Rear Seats. | Settees. | Teachers' Desks. | Chairs. | Book Cases. Large. | Book Cases. Small. | Black Boards. | Clocks. | Organs. | Pianos. | Wardrobes. | Umbrella Stands. | Wash Stands. | Tables. | Furnaces. | Stoves. | Screens. | Estimated Valuation. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Male Primary No. 1 | 434 | 60 | 2 | 12 | 40 | 1 | 9 | 28 | 1 | 1 | .. | 1 | 3 | 1 | 1 | " | 1 | 1 | $2,240 00 |
| " " " 2 | 284 | 22 | 2 | 7 | 24 | 1 | 5 | 18 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 5 | 9 | 850 00 |
| " " " 3 | 506 | 52 | .... | 9 | 26 | 1 | 7 | 24 | 1 | 1 | .. | 2 | 2 | 1 | 1 | " | 1 | 1 | 1,075 00 |
| " " " 4 | 300 | 30 | 5 | 6 | 36 | 3 | 6 | wall | 1 | 1 | .. | 2 | 6 | 1 | 1 | Smead | 1 | .... | 2,350 00 |
| " " " 5 | 538 | 40 | 3 | 8 | 30 | 2 | 7 | 28 | 1 | 1 | .. | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 2,250 00 |
| " " " 6 | 452 | 36 | .... | 9 | 28 | 1 | 7 | 28 | 1 | 1 | .. | 2 | 4 | 1 | 1 | ..... | 10 | 16 | 1,600 00 |
| " " " 7 | 238 | 24 | .... | 6 | 24 | 1 | 5 | 14 | 1 | 1 | .. | 1 | 5 | 1 | 1 | 2 | 3 | 6 | 1,100 00 |
| " " " 8 | 364 | 38 | .... | 8 | 26 | 1 | 6 | 8 | 1 | 1 | .. | 1 | 6 | 1 | 1 | ..... | 9 | 17 | 1,250 00 |
| " " " 10 | 232 | 21 | 2 | 7 | 18 | 2 | 3 | 22 | 1 | 1 | .. | 1 | 4 | 1 | 2 | ..... | 6 | 9 | 950 00 |
| " " " 11 | 694 | 38 | .... | 10 | 28 | 2 | 8 | 10 | 1 | 1 | .. | 1 | 4 | 1 | 2 | 6 | 1 | 2 | 2,880 00 |
| " " " 12 | 435 | 12 | .... | 9 | 28 | 3 | 8 | 28 | 1 | 1 | .. | 1 | 4 | 1 | 1 | ..... | 9 | 16 | 1,440 00 |
| " " " 13 | 336 | 26 | .... | 6 | 30 | 1 | 5 | wall | 1 | 1 | .. | 1 | 3 | 1 | 1 | Smead | 1 | .... | 1,640 00 |
| " " " 14 | 372 | 27 | .... | 8 | 34 | 1 | 6 | 23 | 1 | 1 | .. | 2 | 6 | 1 | 1 | 5 | 1 | 2 | 1,775 00 |
| " " " 15 | 408 | 20 | .... | 9 | 24 | 1 | 6 | 18 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | ..... | 9 | 12 | 1,350 00 |
| " " " 16 | 356 | 27 | 5 | 6 | 24 | 1 | 4 | 22 | 1 | 1 | .. | 1 | 5 | 1 | 1 | 5 | 1 | 2 | 1,875 00 |
| " " " 17 | 332 | 33 | .... | 6 | 14 | 1 | 4 | 22 | 1 | 1 | .. | 1 | 4 | 1 | 1 | ..... | 8 | 14 | 1,000 00 |
| " " " 18 | 324 | 26 | .... | 6 | 26 | 1 | 5 | 18 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 7 | 14 | 975 00 |
| " " " 19 | 148 | 43 | .... | 5 | 28 | 1 | 4 | wall | 1 | 1 | .. | 1 | 4 | 1 | 1 | Smead | .... | 1 | 1,250 00 |
| " " " 20 | 778 | 61 | .... | 17 | 36 | 2 | 13 | 48 | 2 | 1 | .. | 2 | 12 | 1 | 1 | ..... | 16 | 34 | 2,350 00 |
| " " " 21 | 440 | 31 | .... | 5 | 11 | 2 | 14 | 18 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 7 | 14 | 1,100 00 |
| " " " 22 | 350 | 38 | 11 | 10 | 24 | 1 | 8 | 24 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 9 | 14 | 1,200 00 |
| " " " 23 | 396 | 26 | .... | 6 | 19 | 1 | 5 | 8 | 1 | 1 | .. | 1 | 4 | 1 | 1 | 4 | 4 | 8 | 2,050 00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Male Primary | No. | 24 | 360 | 46 | | 9 | 36 | 2 | 7 | wall | 1 | 1 | | 1 | 4 | 1 | 1 | Smead | 1 | 6 | $2,200 | 00 |
| " | " | 25 | 434 | 34 | | 8 | 40 | 2 | 4 | wall | 1 | 1 | | 2 | 4 | 1 | 1 | Smead | 1 | 1 | 2,050 | 00 |
| " | " | 26 | 238 | 20 | 4 | 7 | 18 | 1 | 6 | 22 | 1 | 1 | | 1 | 6 | 1 | 1 | | 5 | 10 | 900 | 00 |
| " | " | 27 | 362 | 30 | | 7 | 18 | 1 | 6 | 26 | 1 | 1 | | 1 | 4 | 1 | 1 | | 8 | 14 | 1,250 | 00 |
| " | " | 28 | 316 | 24 | | 6 | 18 | 1 | 6 | 26 | 1 | 1 | | 1 | 4 | 1 | 1 | | 6 | 12 | 1,100 | 00 |
| " | " | 29 | 392 | 24 | | 6 | 18 | 1 | 6 | 10 | 1 | 1 | | 1 | 4 | 1 | 1 | 5 | 1 | 1 | 2,410 | 00 |
| " | " | 30 | 614 | 46 | | 10 | 24 | 2 | 6 | 25 | 1 | 1 | | 1 | 6 | 1 | 1 | 4 | 1 | 4 | 2,240 | 00 |
| " | " | 31 | 308 | 28 | | 6 | 29 | 1 | 5 | wall | 1 | 1 | | 1 | 6 | 1 | 1 | Smead | 1 | | 1,800 | 00 |
| " | " | 32 | 348 | 34 | | 8 | 30 | 1 | 5 | wall | 1 | 1 | | 1 | 6 | 1 | 1 | Smead | 1 | | 1,925 | 00 |
| " | " | 33 | 382 | 28 | | 6 | 24 | 1 | 5 | wall | 1 | 1 | | 1 | 5 | 1 | 1 | Smead | 1 | | 1,800 | 00 |
| " | " | 34 | 330 | 20 | | 6 | 10 | 1 | 3 | wall | 1 | 1 | | 1 | 6 | 1 | 1 | Smead | 1 | | 1,750 | 00 |
| " | " | 35 | 340 | 24 | | 6 | 20 | 1 | 6 | wall | 1 | 1 | | 1 | 6 | 1 | 1 | Smead | 1 | | 1,500 | 00 |
| " | " | 36 | 208 | 10 | | 4 | 10 | 1 | 3 | 10 | 1 | 1 | | 1 | 4 | 1 | 1 | | 4 | 6 | 600 | 00 |
| " | " | 37 | 301 | 30 | | 6 | 24 | 1 | 6 | wall | 1 | 1 | | 1 | 6 | 1 | 1 | Smead | 1 | | 1,600 | 00 |
| " | " | 38 | 366 | 12 | | 5 | 12 | 1 | 4 | 10 | 1 | 1 | | 1 | 2 | 1 | 1 | | 4 | 6 | 600 | 00 |
| " | " | 39 | 626 | 46 | | 14 | 20 | 1 | | wall | 1 | 1 | | 1 | 2 | 1 | 1 | 4 | | | 2,000 | 00 |
| Totals, Male Primary | | | 14,642 | 1,211 | 34 | 289 | 929 | 50 | 223 | 538 | 39 | 38 | 144 | 165 | 38 | 40 | 41 | 147 | 253 | $60,875 | 00 | | | |

INVENTORY OF FURNITURE, HEATING APPARATUS, ETC., IN THE SCHOOLS—Continued.

| SCHOOLS. | Number of Seats. | Rear Seats. | Settees. | Teachers' Desks. | Chairs. | Book Cases. Large. | Book Cases. Small. | Black Boards. | Clocks. | Organs. | Pianos. | Wardrobes. | Umbrella Stands. | Wash Stands. | Tables. | Furnaces. | Stoves. | Screens. | Estimated Valuation. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Female Primary No. 1 | 520 | 38 | 49 | 14 | 20 | 2 | 8 | 43 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | a | 1 | 1 | $1,540 00 |
| " " " 2 | 285 | 18 | .... | 5 | 14 | 2 | 1 | 18 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 5 | 10 | 800 00 |
| " " " 3 | 308 | 24 | 2 | 6 | 18 | 2 | 8 | 18 | 1 | 1 | .. | 1 | 2 | 1 | 1 | a | 1 | 1 | 950 00 |
| " " " 4 | 300 | 30 | .... | 6 | 36 | 2 | 6 | wall | 1 | 1 | .. | 1 | 6 | 1 | 1 | c | 1 | .... | 2,350 00 |
| " " " 5 | 576 | 45 | 2 | 9 | 18 | 1 | 6 | 22 | 1 | 1 | .. | 1 | 2 | 1 | 1 | c | 1 | 2 | 1,475 00 |
| " " " 6 | 486 | 35 | .... | 7 | 28 | 1 | 10 | 20 | 1 | 1 | .. | 1 | 3 | 1 | 1 | ..... | 8 | 14 | 1,350 00 |
| " " " 7 | 272 | 24 | .... | 5 | 24 | 1 | 6 | 12 | 1 | 1 | .. | 1 | 4 | 1 | 1 | c | 2 | 4 | 750 00 |
| " " " 8 | 362 | 35 | .... | 7 | 26 | 1 | 6 | 8 | 1 | 1 | .. | 2 | 2 | 1 | 1 | ..... | 8 | 15 | 1,150 00 |
| " " " 10 | 211 | 18 | .... | 7 | 18 | 1 | 5 | 20 | 1 | 1 | .. | 1 | 6 | 1 | 1 | ..... | 5 | 9 | 850 00 |
| " " " 11 | 572 | 40 | .... | 10 | 23 | 2 | 9 | 16 | 1 | 1 | .. | 1 | 8 | 1 | 1 | c | 1 | 1 | 2,475 00 |
| " " " 12 | 408 | 33 | 2 | 8 | 20 | 2 | 6 | 28 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 9 | 9 | 1,350 00 |
| " " " 13 | 336 | 26 | .... | 6 | 22 | 1 | 6 | wall | 1 | 1 | .. | 1 | 3 | 1 | 1 | c | 1 | .... | 1,650 00 |
| " " " 14 | 388 | 28 | .... | 6 | 30 | 1 | 7 | 25 | 1 | 1 | .. | 2 | 5 | 1 | 1 | c | 1 | 1 | 1,100 00 |
| " " " 15 | 392 | 33 | 2 | 10 | 24 | 1 | 6 | 28 | 1 | 1 | .. | 1 | 4 | 1 | 1 | ..... | 9 | 14 | 1,350 00 |
| " " " 16 | 318 | 27 | .... | 6 | 20 | 2 | 5 | 22 | 1 | 1 | .. | 1 | 3 | 1 | 1 | c | ..... | | 1,000 00 |
| " " " 17 | 334 | 28 | .... | 7 | 16 | 1 | 6 | 21 | 1 | 1 | .. | 1 | 6 | 1 | 1 | ..... | 7 | 11 | 1,150 00 |
| " " " 18 | 292 | 22 | .... | 6 | 18 | 1 | 2 | 26 | 1 | 1 | .. | 1 | 4 | 1 | 1 | ..... | 6 | 12 | 850 00 |
| " " " 19 | 150 | 20 | .... | 4 | 22 | 1 | 3 | wall | 1 | 1 | .. | 1 | 6 | 1 | 1 | c | 1 | .... | 950 00 |
| " " " 20 | 278 | 52 | .... | 17 | 36 | 1 | 11 | 55 | 1 | 1 | .. | 1 | 8 | 1 | 1 | ..... | 18 | 34 | 2,250 00 |
| " " " 21 | 338 | 31 | .... | 6 | 18 | 2 | 3 | 20 | 1 | 1 | .. | 1 | 3 | 1 | 1 | ..... | 7 | 14 | 2,000 00 |
| " " " 22 | 384 | 30 | 11 | 6 | 17 | 1 | 6 | 21 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 8 | 12 | 1,150 00 |
| " " " 23 | 412 | 26 | .... | 6 | 18 | 1 | 5 | 12 | 1 | 1 | .. | 1 | 2 | 1 | 1 | c | 4 | 1 | 1,300 00 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Female Primary | No. | 24 | 332 | 12 | 9 | 36 | 1 | 8 | wall | 1 | 1 | 1 | 2 | 1 | 1 | c | 4 | 4 | $2,100 | 00 |
| " | " | 25 | 450 | 34 | 8 | 36 | 2 | 7 | wall | 1 | 1 | 1 | 2 | 1 | 1 | c | 1 | | 2,050 | 00 |
| " | " | 26 | 260 | 30 | 6 | 18 | 2 | 5 | 20 | 1 | 1 | 1 | 1 | 1 | 1 | | 16 | 16 | 950 | 00 |
| " | " | 27 | 372 | 42 | 10 | 18 | 1 | 5 | 26 | 1 | 1 | 1 | 4 | 1 | 1 | | 14 | 14 | 1,250 | 00 |
| " | " | 28 | 310 | 27 | 7 | 18 | 1 | 7 | 25 | 1 | 1 | 1 | 3 | 1 | 1 | | 11 | 11 | 1,100 | 00 |
| " | " | 29 | 368 | 24 | 6 | 18 | 2 | 6 | 6 | 1 | 1 | 1 | 2 | 1 | 1 | c | 1 | 1 | 1,175 | 00 |
| " | " | 30 | 382 | 46 | 10 | 18 | 1 | 6 | 30 | 1 | 1 | 1 | 3 | 1 | 1 | c | 2 | 2 | 1,450 | 00 |
| " | " | 31 | 330 | 28 | 6 | 18 | 1 | 5 | wall | 1 | 1 | 1 | 2 | 1 | 1 | c | 1 | 1 | 1,700 | 00 |
| " | " | 32 | 330 | 24 | 6 | 18 | 1 | 5 | wall | 1 | 1 | 1 | 2 | 1 | 1 | c | 1 | | 1,600 | 00 |
| " | " | 33 | 360 | 24 | 6 | 18 | 1 | 5 | wall | 1 | 1 | 1 | 2 | 1 | 1 | c | 1 | | 1,675 | 00 |
| " | " | 34 | 330 | 20 | 4 | 36 | 1 | 5 | wall | 1 | 1 | 1 | 2 | 1 | 1 | c | 1 | 12 | 1,750 | 00 |
| " | " | 35 | 310 | 24 | 6 | 26 | 1 | 6 | wall | 1 | 1 | 1 | 6 | 1 | 1 | c | 1 | | 1,500 | 00 |
| " | " | 36 | 172 | 24 | 4 | 16 | 1 | 4 | 10 | 1 | 1 | 1 | 2 | 1 | 1 | | 5 | 8 | 750 | 00 |
| " | " | 37 | 303 | 30 | 6 | 27 | 1 | 5 | wall | 1 | 1 | 1 | 2 | 1 | 1 | c | 1 | | 1,600 | 00 |
| " | " | 38 | 322 | 12 | 5 | 12 | 1 | 4 | 10 | 1 | 1 | 1 | 1 | 1 | 1 | | 6 | 8 | 650 | 00 |
| " | " | 39 | 794 | 50 | 12 | 30 | 1 | 6 | wall | 1 | 1 | 1 | 1 | 1 | 1 | c | | | 1,100 | 00 |
| Totals, Female Primary. | | | 13,710 | 1,144 | 68 | 275 | 849 | 49 | 223 | 565 | 39 | 38 | 40 | 125 | 38 | 38 | | 173 | 248 | $52,490 | 00 |

INVENTORY OF FURNITURE, HEATING APPARATUS, ETC., IN THE SCHOOLS—Continued.

| SCHOOLS. | Number of Seats. | Rear Seats. | Settees. | Teachers' Desks. | Chairs. | Book Cases. Large. | Book Cases. Small. | Black Boards. | Clocks. | Organs. | Pianos. | Wardrobes. | Umbrella Stands. | Wash Stands. | Tables. | Furnaces. | Stoves. | Screens. | Estimated Valuation. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Colored High School | 275 | 32 | .... | 8 | 48 | 4 | 6 | 42 | 1 | 1 | .. | 2 | 4 | 1 | 2 | *d* | 1 | 1 | $2,600 00 |
| " Grammar No. 1 | 422 | 28 | .... | 6 | 12 | 2 | 7 | 12 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 4 | 8 | 1,200 00 |
| " " " 2 | 354 | 36 | .... | 6 | 18 | 2 | 5 | 14 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 10 | 18 | 1,260 00 |
| " " " 3 | 292 | 30 | .... | 11 | 30 | 6 | 8 | 26 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 10 | 18 | 1,200 00 |
| Male Colored No. 1 | 270 | 24 | .... | 4 | 16 | 1 | 4 | 12 | 1 | 1 | .. | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1,860 00 |
| " " " 2 | 308 | 30 | .... | 7 | 22 | 1 | 6 | 20 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 6 | 10 | 1,020 00 |
| " " " 3 | 526 | 38 | .... | 7 | 30 | 1 | 7 | wall | 1 | 1 | .. | 2 | 1 | 1 | 1 | 8 | 1 | 1 | 2,950 00 |
| " " " 4 | 376 | 24 | .... | 6 | 18 | 2 | 6 | 18 | 1 | 1 | .. | 1 | 1 | 1 | 1 | .... | 6 | 10 | 1,000 00 |
| " " " 5 | 246 | 20 | .... | 5 | 18 | 1 | 4 | 15 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 5 | 10 | 850 00 |
| " " " 6 | 288 | 24 | 9 | 6 | 16 | 9 | 2 | 15 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 6 | 9 | 975 00 |
| " " " 7 | 534 | 39 | .... | 10 | 30 | 1 | 9 | 28 | 1 | 1 | .. | 1 | 4 | 1 | 1 | 6 | 1 | 2 | 2,250 00 |
| " " " 8 | 330 | 25 | .... | 6 | 20 | 2 | 3 | 14 | 1 | 1 | .. | 1 | 1 | 1 | 1 | 2 | 6 | 10 | 1,000 00 |
| " " " 9 | 996 | 100 | .... | 24 | 40 | 2 | 24 | wall | 1 | 1 | .. | 2 | 2 | 1 | 1 | Smead | .... | .... | 10,550 00 |
| M. & F. " " 10 | 498 | 38 | .... | 9 | 30 | 2 | 9 | wall | 1 | 1 | .. | 2 | 2 | 2 | 2 | Smead | ..... | | 1,750 00 |
| Female " " 1 | 524 | 24 | .... | 6 | 24 | 1 | 6 | 18 | 1 | 1 | .. | 1 | 3 | 1 | 1 | *d* | ..... | | 1,300 00 |
| " " " 2 | 340 | 26 | .... | 7 | 19 | 2 | 6 | 16 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 6 | 14 | 1,100 00 |
| " " " 3 | 542 | 38 | .... | 10 | 30 | 1 | 7 | wall | 1 | 1 | .. | 1 | 3 | 1 | 1 | *d* | 1 | 1 | 2,300 00 |
| " " " 4 | 334 | 26 | 4 | 8 | 10 | 1 | 4 | 25 | 1 | 1 | .. | 1 | 3 | 1 | 1 | ..... | 6 | 10 | 1,000 00 |
| " " " 5 | 248 | 20 | .... | 5 | 18 | 1 | 4 | 15 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 5 | 10 | 1,000 00 |
| " " " 6 | 282 | 23 | 11 | 7 | 16 | 1 | 3 | 16 | 1 | 1 | .. | 1 | 1 | 1 | 1 | ..... | 7 | 8 | 1,350 00 |
| " " " 7 | 546 | 37 | .... | 12 | 28 | 1 | 11 | 31 | 1 | 1 | .. | 2 | 1 | 1 | 2 | *d* | 2 | 4 | 1,450 00 |
| " " " 8 | 304 | 25 | .... | 6 | 24 | 1 | 4 | 32 | 1 | 1 | .. | 1 | 2 | 1 | 1 | *d* | 3 | 6 | 950 00 |
| " " " 9 | 1,608 | 100 | .... | 24 | 40 | 2 | 24 | wall | 1 | 1 | .. | 2 | 2 | 1 | 1 | *d* | .... | .... | 4,100 00 |
| Totals, colored | 10,443 | 807 | 24 | 200 | 557 | 47 | 169 | 369 | 23 | 23 | .. | 29 | 48 | 24 | 26 | 26 | 87 | 151 | $45,015 00 |

| SCHOOLS. | Number of Seats. | Rear Seats. | Settees. | Teachers' Desks. | Chairs. | Book Cases. Large. | Book Cases. Small. | Black Boards. | Clocks. | Organs. | Pianos. | Wardrobes. | Umbrella Stands. | Wash Stands. | Tables. | Furnaces. | Stoves. | Screens. | Estimated Valuation. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annex No. 1 | 312 | 28 | .... | 6 | 14 | 1 | 4 | wall | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 6 | 10 | $650 00 |
| " " 2 | 1,122 | 62 | .... | 12 | 36 | 2 | 6 | 26 | 1 | 1 | .. | 1 | 8 | 2 | 1 | ..... | 14 | 26 | 1,850 00 |
| " " 3, Male | 318 | 28 | .... | 6 | 18 | 1 | 2 | 16 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | ..... | 8 | 16 | 1,000 00 |
| " " 3, Female | 780 | 85 | .... | 17 | 500 | 4 | 17 | wall | 1 | 2 | .. | 4 | 4 | .... | 2 | Steam | .... | .... | 13,000 00 |
| " " 4 | 364 | 28 | .... | 6 | 24 | 1 | 5 | wall | 1 | 1 | .. | 1 | 2 | 1 | 1 | Smead | 1 | .... | 1,275 00 |
| " " 5 | 354 | 30 | .... | 6 | 18 | 2 | 2 | 10 | 1 | .... | .. | 1 | 2 | 1 | 1 | ..... | 6 | 12 | 850 00 |
| " " 6 | 326 | 30 | .... | 6 | 24 | 1 | 5 | wall | 1 | 1 | .. | 1 | 4 | 1 | 1 | Smead | 1 | .... | 1,275 00 |
| " " 7 | 484 | 32 | .... | 8 | 18 | 1 | 5 | 7 | 1 | .... | .. | 1 | 2 | 1 | 1 | 1 | 5 | 8 | 1,600 00 |
| " " 8 | 1,002 | 48 | .... | 14 | 36 | 2 | 12 | wall | 1 | 1 | .. | 2 | 4 | 1 | 1 | Smead | 1 | .... | 4,000 00 |
| " " 9 | 614 | 26 | .... | 6 | 18 | 2 | 2 | 10 | 1 | .... | .. | 1 | 6 | 2 | 1 | ..... | 6 | 14 | 750 00 |
| " " 10 | 186 | 22 | .... | 5 | 20 | 1 | 6 | 12 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 4 | 8 | 600 00 |
| " " 11 | 619 | 48 | .... | 12 | 40 | 2 | 10 | wall | 1 | 1 | .. | 2 | 10 | 2 | 1 | Smead | 1 | .... | 3,800 00 |
| " " 13 | 836 | 52 | .... | 14 | 40 | 2 | 12 | 32 | 2 | 1 | .. | 2 | 6 | 2 | 1 | Smead | 1 | .... | 2,650 00 |
| " " 14 | 150 | 7 | .... | 2 | 6 | 1 | 2 | 6 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 3 | 6 | 350 00 |
| " " 15 | 478 | 40 | .... | 10 | 29 | 2 | 3 | wall | 2 | 1 | .. | 2 | 10 | 2 | 1 | Smead | .... | .... | 2,850 00 |
| " " 16, Male | 408 | 30 | .... | 6 | 20 | 1 | 5 | 12 | 1 | 1 | .. | 1 | 2 | 1 | 1 | 4 | .... | .... | 2,150 00 |
| " " 16, Female | 340 | 30 | .... | 6 | 20 | 1 | 5 | 12 | .. | 1 | .. | 1 | 2 | 1 | 1 | *e* | .... | .... | 1,600 00 |
| " " 17 | 316 | 24 | .... | 6 | 20 | 1 | 5 | 15 | 1 | 1 | .. | 1 | 2 | 1 | 1 | Smead | .... | .... | 1,500 00 |
| " " 18 | 759 | 80 | .... | 15 | 100 | 4 | 14 | wall | 2 | 2 | .. | 4 | 4 | .... | 2 | Smead | .... | .... | 9,300 00 |
| " " 19 | 240 | 15 | .... | 6 | 12 | 1 | 4 | 8 | 1 | 1 | .. | 1 | 2 | 1 | 1 | ..... | 3 | 6 | 625 00 |
| " " 1, Colored | 158 | 10 | .... | 3 | 6 | 1 | 3 | 4 | 1 | 1 | .... | | 1 | .... | .... | ..... | 3 | 5 | 325 00 |
| " " 2 " | 112 | 4 | .... | 2 | 6 | 1 | 3 | 7 | 1 | 1 | .... | | 1 | .... | .... | ..... | 2 | 4 | 300 00 |
| " " 3 " | 142 | 14 | .... | 4 | 8 | 1 | 3 | 6 | 1 | 1 | .... | | 1 | .... | .... | ..... | 3 | 5 | 350 00 |
| Totals, Annex | 10,420 | 773 | .... | 178 | 1033 | 36 | 135 | 183 | 25 | 22 | 1 | 30 | 82 | 23 | 22 | 5 | 68 | 120 | $52,300 00 |

*a* Included in Male Grammar Department. *b* Included in Female Grammar Department. *c* Included in Male Primary Department. *d* Included in Male Colored Department. *e* Included in Male Annex Department.

NOTE—At the request of the Secretary the inventory this year shows the number of seats (room for 1 pupil) instead of the number of desks as formerly.

INVENTORY OF FURNITURE, HEATING APPARATUS, ETC., IN THE SCHOOLS—RECAPITULATION.

| SCHOOLS. | Number of Seats. | Rear Seats. | Settees. | Teachers' Desks. | Chairs. | Book Cases. Large. | Book Cases. Small. | Black Boards. | Clocks. | Organs. | Pianos. | Wardrobes. | Umbrella Stands. | Wash Stands. | Tables. | Furnaces. | Stoves. | Screens. | Estimated Valuation. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Baltimore City College | 939 | 56 | 78 | 16 | 130 | 19 | 1 | 16 | 13 | 1 | 1 | 2 | .. | .. | 8 | 1 | .. | .. | $6,850 00 |
| Eastern Fem. High School | 416 | 25 | 84 | 24 | 125 | 7 | .. | 22 | 3 | .. | 2 | .. | .. | .. | 12 | 1 | 2 | 2 | 5,340 00 |
| Western Fem. High School | 798 | 90 | 159 | 18 | 115 | 10 | 7 | wall | 26 | 1 | 1 | .. | .. | .. | 9 | Steam | .. | .. | 9,750 00 |
| Balto. Polytechnic Inst. | 422 | 46 | .. | 12 | 954 | 11 | .. | wall | 13 | 1 | .. | .. | .. | .. | 16 | 2 | .. | .. | 5,356 00 |
| Col'd Man'l Training Sch'l | 225 | 12 | .. | 11 | 67 | 8 | 6 | 25 | 1 | 1 | .. | 1 | .. | .. | 1 | .. | 15 | 22 | 900 00 |
| Male Grammar | 8,890 | 756 | 23 | 204 | 586 | 51 | 160 | 401 | 30 | 22 | .. | 27 | 49 | 21 | 22 | 18 | 78 | 136 | 42,735 00 |
| Female Grammar | 8,940 | 676 | 92 | 177 | 585 | 45 | 154 | 358 | 24 | 17 | 4 | 29 | 70 | 20 | 22 | 10 | 77 | 147 | 36,850 00 |
| English-German | 7,781 | 177 | 2 | 137 | 304 | 21 | 99 | 185 | 15 | 12 | .. | 19 | 46 | 13 | 15 | 14 | 46 | 68 | 25,100 00 |
| Male Primary | 11,016 | 1,165 | 34 | 275 | 909 | 50 | 223 | 538 | 38 | 37 | 1 | 43 | 163 | 37 | 39 | 37 | 117 | 253 | 58,875 00 |
| Female Primary | 12,916 | 1,094 | 68 | 263 | 819 | 18 | 217 | 565 | 38 | 37 | .. | 39 | 121 | 37 | 37 | .. | 173 | 248 | 51,090 00 |
| Colored | 9,269 | 705 | 24 | 178 | 537 | 17 | 135 | 369 | 23 | 23 | .. | 27 | 18 | 24 | 26 | 26 | 98 | 173 | 33,890 00 |
| | 61,612 | 5,102 | 564 | 1,315 | 5,131 | 326 | 1,002 | 2,509 | 222 | 152 | 9 | 187 | 500 | 152 | 207 | 145 | 636 | 1,049 | $287,861 00 |
| Annex Schools | 9,119 | 652 | .. | 154 | 463 | 31 | 115 | 209 | 24 | 20 | 1 | 24 | 79 | 25 | 20 | 5 | 80 | 144 | 52,650 00 |
| Totals | 74,031 | 5,754 | 564 | 1,469 | 5,594 | 357 | 1,117 | 2,718 | 246 | 172 | 10 | 211 | 579 | 177 | 227 | 150 | 716 | 1,193 | $340,511 00 |

# PAPERS RELATING TO BALTIMORE CITY COLLEGE.

## FACULTY.

FRANCIS A. SOPER, A.M., PRESIDENT,
*Professor of Higher Mathematics.*

CHARLES F. RADDATZ, VICE-PRESIDENT.
*Professor of German and History.*

A. L. MILLES, B.A.,
*Professor of French and Latin.*

POWHATAN CLARKE, M.D.,
*Professor of Natural Sciences.*

A. Z. HARTMAN, A.M.,
*Professor of Latin and Greek.*

J. N. HANK, A.M.,
*Professor of Latin and Mental Philosophy.*

JOSEPH H. ELLIOTT, SECRETARY OF FACULTY,
*Professor of Book-keeping and Penmanship.*

S. F. NORRIS,
*Professor of Astronomy and Mathematics.*

ALEXANDER HAMILTON,
*Professor of English and Mathematics.*

G. EMORY MORGAN, A.M.,
*Professor of Latin and English.*

PHILIP H. FRIESE,
*Professor of Natural Sciences and English.*

JULIUS G. MILLER,
*Professor of Mathematics and Latin.*

A. NEWTON EBAUGH, PH.B.,
*Professor of History and Political Economy.*

JOHN F. ARTHUR,
*Professor of English and History.*

B. WHEELER SWEANY,
*Professor of Drawing.*

WILBUR F. SMITH,
*Adjunct Professor of Mathematics and English.*

# CURRICULUM.

## FIRST YEAR.

History of United States,
History of England,
Writing,
Composition,
Drawing,
Physics,
English Literature,
Latin,
Book-keeping,
Algebra,
Geometry.

## SECOND YEAR.

Composition,
English Literature,
Book-keeping,
Physics,
Drawing,
Latin,
German,
Geometry,
History of Rome,
Mensuration,
Elocution,
Constitution of Maryland.

## THIRD YEAR.

Composition and Elocution,
English Literature,
Drawing,
Latin,
Chemistry,
Review of Mathematics,
History of Greece and Eastern Nations,
German,
Greek (optional),
French,
Trigonometry and applications,
Rhetoric.

## FOURTH YEAR.

English Literature and essays,
Chemistry,
Latin,
Greek,
French,
Surveying and Navigation,
German,
Drawing,
Analytical Geometry,
Astronomy,
Civil Government,
Elocution.

## FIFTH YEAR.

Latin,
Greek,
Calculus,
English Literature and essays,
Mental Philosophy,
Political Economy,
French,
German,
Chemistry,
Astronomy,
Drawing,
Elocution.

# RECITATIONS.

## 113th and 114th Terms.

RECITATIONS HEARD EACH WEEK BY THE RESPECTIVE PROFESSORS.

PROFESSOR SOPER—Calculus, 4 times; Analytical Geometry, 6 times; Preparation, 4 times..... 14

PROFESSOR RADDATZ—German, 21 times; English History, 2 times; Preparation, 1 time..... 24

PROFESSOR MILLES—Latin, 9 times; French, 15 times..... 24

PROFESSOR CLARKE—Natural Philosophy, 6 times; Chemistry, 18 times ..... 24

PROFESSOR HARTMAN—Greek, 12 times; Latin, 12 times..... 24

PROFESSOR HANK—Latin, 20 times; Mental Philosophy, 2 times; Preparation, 2 times..... 24

PROFESSOR ELLIOTT—Book-keeping, 21 times; Writing, 1 time; Preparation, 3 times..... 25

PROFESSOR NORRIS—Trigonometry, 12 times; Astronomy, 3 times; Surveying and Navigation, 4 times; Review Mathematics, 4 times; Preparation, 1 time..... 24

PROFESSOR HAMILTON—Geometry, 18 times; Review Mathematics, 4 times; Algebra, 2 times; Preparation, 1 time..... 25

PROFESSOR MORGAN—Latin, 15 times; English Literature, 6 times; Composition, 1 time; Preparation, 2 times..... 24

PROFESSOR FRIESE—Composition, 8 times; Natural Philosophy, 12 times; History of United States, 3 times; Preparation, 1 time.. 24

PROFESSOR MILLER—Latin, 10 times; Algebra, 6 times; Composition, 2 times; Geometry, 4 times; Preparation, 3 times..... 25

PROFESSOR EBAUGH—History, 19 times; Political Economy, 2 times; Civil Government, 2 times; Preparation, 1 time..... 24

PROFESSOR ARTHUR—English Literature, 15 times; Rhetoric, 9 times..... 24

PROFESSOR SWEANY—Drawing, 24 times; Preparation, 1 time .... 25

PROFESSOR SMITH—History, 3 times; English Literature, 6 times; Writing, 5 times; Algebra, 4 times; Geometry, 2 times; Composition, 4 times; Preparation, 1 time..... 25

# CLASS RECITATIONS.

**Recitations Made Each Week by the Different Classes.**

Fifth Year.—J.—Calculus, 4; French, 2; German, 2; Chemistry, 3; English, 3; Drawing, 1; Latin, 4; Mental Philosophy or Greek, 2; Astronomy, 1; Political Economy or Greek, 2—24.

Fourth Year.—$I^1$ and $I^2$.—Analytical Geometry, 3; French, 2; German, 2; Chemistry, 3; English, 3; Drawing, 1; Latin, 4; Greek, or Surveying and Navigation, 4; Astronomy, 1; Civil Government, 1—24.

Third Year.—$H^1$, $H^2$ and $H^3$.—French, 3; German, 2; Chemistry, 3; English and Rhetoric, 3; Drawing, 1; Greek or Review Mathematics, 4; Latin, 4; Trigonometry, 4; History of Greece and Eastern Nations, 1—25.

Second Year.—$B^1$, $B^2$ and $B^3$.—German, 3; Physics, 2; English Literature, 2; Drawing, 2; Latin, 4; Book-keeping, 3; Geometry, 4; Composition, 1; History of Rome and Constitution of Maryland, 2—23.

First Year.—$A^1$, $A^2$, $A^3$, $A^4$, $A^5$ and $A^6$.—Latin, 5; History of England, 2; Drawing, 2; Book-keeping, 2; Writing 1; Geometry, 2; Algebra, 2; English Literature, 2; Physics, 2; Composition, 2; History of United States, 1—23.

# ROLL FOR THE YEAR 1897.

| | |
|---|---|
| Number of students on roll December 31, 1896 | 705 |
| Number admitted by promotion during 1897 | 318 |
| Number admitted from private schools during 1897 | 8 |
| Whole number on roll during 1897 | 1,031 |
| Number withdrawn during 1897 | 338 |
| Number graduated in June, 1897 | 27 |
| Number re-entered during 1897 | 4 |
| Number on roll December 31, 1897 | 670 |
| Average attendance during 1897 | 616.8 |
| Average number on roll during 1897 | 653.6 |
| Percentage of attendance for the year | 94.3 |
| Number on roll June 30, 1897 | 556 |
| Number of those who returned after summer vacation | 424 |
| Number of new students entered after September 7, 1897 | 326 |
| Whole number on roll from September 7 to December 31, 1897 | 750 |
| Number withdrawn from September 7 to December 31, 1897 | 80 |

# GRADUATES.

Walter Eaton Atkinson,
Ollie Bacharach,
John Howard Bramble,
John Gorsuch Campbell,
Frederic Wilbur Cone,
Isaac Hathaway Francis, Jr.,
Arthur Clarke Gibson,
Joseph Womble Gibson,
Eugene Henderson Hayward,
Hugh Joseph Holt,
Edward Pechin Hyde,
Guy Percy Kemp,
Moses Albert Levinson,
George Helfrich Maccubbin,
Thomas Joseph Madden,
Henry Manken,
James Free Mitchell,
Alfred James O'Ferrall,
Stephen Hugh Quigley,
Matthias Forney Reese,
James McKendree Reiley,
Thomas Stephens Rice,
Robert Bruce Roulston,
William Wallace Sheridan,
Frederick Jacob Singley,
Andrew Noel Trippe,
Charles List Wiegand.

# Recipients of Peabody Prizes.

### OF THE FIRST GRADE--ONE HUNDRED DOLLARS EACH.

Arthur Clarke Gibson, Joseph Womble Gibson,
Edward Pechin Hyde.

### OF THE SECOND GRADE--FIFTY DOLLARS EACH.

Frederick Jacob Singley,
John Gorsuch Campbell,
Henry Manken,
Eugene Henderson Hayward.

# Papers Relating to Baltimore Polytechnic Institute.

## FACULTY.

### SESSION 1897-1898

JOHN W. SAVILLE, LL.B., PRESIDENT,

*Engineering.*

RICHARD H. UHRBROCK, VICE-PRESIDENT,

*Higher Mathematics.*

WILLIAM DUGENT,

*Instructor in Pattern-making and Wood-turning.*

WILLIAM G. RICHARDSON,

*Instructor in Chipping, Filing and Machine Construction.*

WILLIAM H. HALL,

*Instructor in Chemistry, Physics and History.*

J. WARD WILSON, M.D.,

*Instructor in Anatomy, Physiology and Hygiene*

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*Instructor in Forging.*

B. WHEELER SWEANY,

*Instructor in Mechanical and Architectural Drawing.*

JOHN L. YATER, JR.,

*Instructor in Algebra and Arithmetic.*

* THOMAS G. FORD,

*Instructor in Carpentry.*

* GEORGE M. GAITHER,

*Instructor in Carpentry.*

* WARREN S. SEIPP,

*Instructor in Free Hand Drawing.*

FREDERICK D. J. KAESSMANN,

*Instructor in German.*

WILLIAM A. JONES,

*Instructor in Sheet Metal Work.*

SAMUEL M. NORTH,

*Instructor in Algebra.*

WILLIAM S. BLAKE,

*Instructor in Literature, English and Oratory.*

* RALPH L. WILLIAMS,

*Instructor in Arithmetic.*

JOHN C. MATTOON,

*Instructor in Carpentry, Reading and Spelling.*

FREDERICK W. WILD,

*Instructor in Sheet Metal Work.*

* B. H. BRANCH,

*Instructor in Electricity.*

* Graduates of this Institute.

# THE COURSE OF STUDY.

The course of study covers three years, and the school time of the student is about equally divided between mental and manual exercises. It is similar to the usual high school course, with the exception that the study of ancient languages is replaced by instruction in drawing and in the care and use of tools. One hour per day is given to drawing, one hour and a-half to shop-work and two hours and a-half to academic study.

The course of study embraces five parallel lines, as follows:

First—A course in Mathematics, including Algebra, Arithmetic, Book-keeping, Geometry, Mensuration and Trigonometry.

Second—A course in Science, including Chemistry, Geography, Physics, Physiology, Steam Engineering and Electricity.

Third—A course in the English and in the German Language and Literature, and in History.

Fourth—A course in Free-Hand and Mechanical Drawing and Designing.

Fifth—A course in Tool Instruction, including Carpentry, Wood-carving and Turning, Pattern-making, Moulding, Soldering, Brazing, Vise and Machine Shop Work, and the Care and Management of Steam Engines and Boilers.

# GRADUATES.

Bachrach, Louis Fabian
Bennett, Alan Marion
Carter, William Melvin
Cromwell, Elvin Griswold
Elsroad, John Towson, Jr.
Gambrill, John Montgomery
Hatch, Ernest Cummins
Kirwan, William Hain
Kugler, Harry Lee
Larner, Chester Waters
Preston, Howard Osgood
Schnepfe, George Gottlieb
Schwartz, Frederick Lewis
Smith, Joseph Stewart, Jr.
Sparks, Douglas Alan
Sparks, Joseph Morrison
Ward, Wilson

*Recipient of Alumni Medal.*

William Melvin Carter.

*Recipient of Saville Steam Engineering Medal.*

William Hain Kirwan.

*Recipient of Electrical Engineering Medal, Presented by Class of '93.*

Alan Marion Bennett.

*Recipient of Medal for Proficiency in German, Presented by Prof. F. D. J. Kaessmann,*

Alan Marion Bennett.

*Recipient of Medal for Proficiency in Mathematics, Presented by Class of '96.*

William Melvin Carter.

# GRADUATES—EVENING CLASSES.

*Arithmetic.*

Adams, William Saville.
Eckhart, William Benjamin.
Palmer, Charles Edward.
Sullivan, Daniel Stephen.

*Book-keeping.*

Mintz, Isador.
Whittington, George Andrew.
Sullivan, Francis.

*Architectural Drawing.*

Marling, William Augustus.
Momberger, Albert Henry.
Spedden, John Clifford.
Timanus, Edward Emory.

*Free-hand Drawing.*

Pfeiffer, Emil.
Seidel, Harry Edward.
Sluter, Wilson Lee.
Waldschmidt, William.

*Mechanical Drawing.*

Bisson, William.
Hughes, Howard Ijams.
McNeil, William Henry.
Potter, Zoroaster Franklin.
Seidel, Emory Pius.
Schul, William Edward.
Schults, Joseph Maltier.
Weikert, George Frederick.

# ROLL.

## DAY CLASSES.

| | | |
|---|---|---|
| Number of students on roll December 31, 1897 | 525 | |
| Number of students admitted during the year | 400 | |
| Total number in the Institute during the year | | 925 |
| Number withdrawn during the year | 354 | |
| Number graduated | 17 | |
| | | 371 |
| Number now on roll | | 554 |
| Average enrollment during the year | 503 | |
| Percentage of attendance during the year | 90 | |

## NIGHT CLASSES.

| | | |
|---|---|---|
| Number on roll December 31, 1897 | 619 | |
| Number admitted during the year | 691 | |
| Total number in the Institute during the year | | 1,310 |
| Number withdrawn during the year | 560 | |
| Number graduated | 22 | |
| | | 582 |
| Number now on roll | | 728 |
| Total number now on roll in day and night classes | | 1,282 |

# Papers Relating to the Eastern Female High School.

## FACULTY.

WILLIAM F. WARDENBURG, Principal,
*Astronomy, Book-keeping, Trigonometry.*

MARY C. GEDDES,
*Geometry, Composition, Mental Philosophy.*

LAURA V. DeVALIN,
*English Literature, Composition, Mental Philosophy.*

ELIZA E. NICOLAI,
*Natural Philosophy, Composition, Astronomy.*

M. MATILDA MULLIN,
*Drawing.*

LEONORA E. CARPENTER,
*History, Composition.*

SUE M. LOHRFINCK,
*Elocution, Composition, Physiology.*

MARY C. BASIL,
*Composition, Algebra, Geometry.*

KATE M. LEWIS,
*Algebra, Composition, History.*

THEODOCIA B. MAHON,
*Algebra, Composition, Geometry.*

MARGARET GARRETT,
*Latin.*

ANNA B. DIETRICHS,
*German.*

MARY McLEAN,
*Composition, Latin, Literature.*

J. HARRY DEEMS,
*Music.*

## GRADUATES.

Mary A. Allen,
Anna Laura Bacon,
Lucie R. Bancroft,
Jestina G. Barton,
Jennie E. Beck,
Ella V. Bennett,
Minnie Bernstein,
Annie Laurie Bosley,
A. Virginia Broadbelt,
Martha E. Childs,
Fannie R. Cockrill,
Lula B. Cranmer,
Loretta G. Donahue,
Mary E. Gage,
Jessie M. Grafton,
Julia E. Graham,
Marie T. Gray,
Mary A. Grob,
Florence M. Groh,
Estelle F. Gunby,
Eda B. Hall,
Annie E. Hardiman,
Edna E. Hermann,
Fannie B. Hershey,
Lillie M. Jefferson,
Elizabeth B. Johnston,
Almira K. Jump,
Edith Junkins,
Sadie F. Kinnear,
Nellie M. Koerner,
Bertha M. Lee,
Bessie R. Louderman,
Mary G. McKewen,
Janie I. Miles,
Grace T. Millar,
Katherine Miller,
Mary C. Monk,
M. Katharine Murphy,
S. Imogene Owens,
Mildred L. Petticord,
Helen A. Prince,
Sarah A. Roberts,
Emma M. Rupprecht,
Marion E. Scott,
Agnes M. Shearer,
Mary M. Shipley,
E. Nora Siegmund,
Minnie Sopher,
A. M. Spengemann,
Louise C. Stahn,
Harriet Ann Steuart,
Annie R. Stevens,
Adelaide J. Strodthoff,
Miriam Stromenger,
Pearl M. Thompson,
Sarah Thompson,
Jane Grey Thrift,
Carrie Waldorf,
M. Catharine Weaver,
S. Cornelia White.

## Recipients of Peabody Medals.

### FIRST GRADE.

Florence May Groh, Grace T. Millar, Mildred Lee Petticord,
Carrie Waldorf, Mary C. Monk.

### SECOND GRADE.

Estelle F. Gunby, Almira K. Jump, Mary Katharine Murphy,
Elizabeth B. Johnston, Fannie Read Cockrill, Edna E. Hermann.
A. Virginia Broadbelt, Minnie Bernstein,
Mary A. Allen, Bertha Mildred Lee.

## Additional Number Receiving Tickets to Peabody Lectures.

Pearl M. Thompson, Ella V. Bennett, Nellie W. C. Koerner,
Minnie Sopher, Mary A. Grob, Annie R. Stevens.
Martha E. Childs, Amanda M. Spengemann,
Katharine Miller, Loretta G. Donahue,

# CLASS RECITATIONS.

**Recitations Made Each Week by Different Classes.**

L, M.—Mental Philosophy, 3; Trigonometry, 3; History, 2; Elocution, 1; Drawing, 2; Music, 2; Composition, 1; Astronomy, 3; German, 3; Latin, 5—25.

H, I, K.—English Literature, 2; Elocution, 1; Algebra, 2; History, 2; Geometry, 3; Book-keeping, 2; Drawing, 2; Music, 2; Composition, 1; German, 3; Latin, 5—25.

E, F, G.—Algebra, 3; Composition, 2; Drawing, 2; Elocution, 1; Geometry, 3; German, 3; History, 2; Literature, 3; Natural Philosophy, 2; Vocal Music, 2; Latin, 2—25.

A, B, C, D.—Literature, 3; Elocution, 1; Algebra, 5; Natural Philosophy, 3; Drawing, 2; Music, 2; Composition, 2; History, 2; Physiology, 2; Geometry, 3—25.

# ROLL.

| | |
|---|---|
| Number of pupils on roll December 31, 1896 | 424 |
| Number admitted by promotion during 1897 | 170 |
| Number admitted from private schools during 1897 | 4 |
| Number admitted by transfer during 1897 | 6 |
| Number re-entered during 1897 | 2 |
| Total number in school during the year | 606 |
| Average enrollment | 409 |
| Average attendance (92¼ per cent.) | 378 |
| Number withdrawn during the year | 101 |
| Number transferred during the year | 22 |
| Number graduated | 60 |
| Number now on roll | 423 |

# Course of Study in the Female High School.

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FIRST YEAR.

Algebra,
Composition,
Drawing,
Elocution,
Geometry,
History,
Literature,
Natural Philosophy,
Physiology,
Vocal Music.

SECOND YEAR.

Algebra,
Composition,
Drawing,
Elocution,
Geometry,
German,
History,
Latin,
Literature,
Natural Philosophy,
Vocal Music.

THIRD YEAR.

Algebra,
Book-keeping,
Composition,
Drawing,
Elocution,
Geometry,
German,
History,
Latin,
Literature,
Vocal Music.

FOURTH YEAR.

Astronomy,
Composition,
Drawing,
Elocution,
German,
History,
Latin,
Mental Philosophy,
Trigonometry,
Vocal Music.

# Papers Relating to the Western Female High School.

## FACULTY.

ANDREW S. KERR, Principal,
*Latin.*

PAMELA A. HARTMAN,
*English Literature, Mental Philosophy, Composition.*

SARA S. RICE,
*Elocution, Literature, Composition.*

JANE S. WILLIAMS,
*Algebra, Astronomy, Composition.*

EMMA COWMAN,
*Natural Philosophy, Literature, Physiology, Composition.*

HENRIETTA C. ADAMS,
*History, Composition.*

LOUISA C. SAUMENIG,
*Geometry, Book-keeping, Trigonometry.*

ANNA P. TUDOR,
*Latin, Geometry, Composition.*

ANNIE O. SOLLERS,
*Geometry, Natural Philosophy, Composition.*

MARY H. THOMIZ,
*Physiology, Algebra, Composition, Literature.*

FRANCES RUTTER,
*Geometry, Natural Philosophy, History, Composition.*

IMOGEN GEORGE,
*English Literature, History, Composition.*

ELIZABETH HELSBY,
*Algebra, Drawing, Composition.*

ADA M. SPENCER,
*Algebra, Natural Philosophy, Physiology, Composition.*

ELIZA J. DAVIS,
*Drawing.*

FRANCES A. CASPARI,
*German.*

JOHN G. WEHAGE,
*Vocal Music.*

# GRADUATES.

Addison, Mamie K.
Adler, Grace Aguilar
Atkinson, Inez H.
Baker, Edith Elizabeth
Balthis, Mary Evelyn
Baumgarten, Rosa
Bennett, Fannie S.
Bouis, Grace Griffith
Bowie, Nellie Gertrude
Burns, Bessie L.
Carney, Ella Marianna
Caspari, Alice C.
Cole, Eleanor E.
Cooper, Grace Lee
Correll, Edna Earl
Ditty, Roberta Lee
Dunn, Mary Elma
Edel, Ella Clementine
Evans, Harriett
Foster, Lillian Goddin
Ganter, Josephine A.
Gray, Minnie V.
Griffin, A. Wenonah
Gump, Florence H.
Gutermuth, Alberta W.
Hahn, Carrie Louise
Hart, Clara Estelle
Hellbach, Bertha M.
Hobbs, Lillie E.
Hodgdon, Jeannette B.
Hollander, Rose
Jones, Betty Blanche
Kammerer, Carrie A.
Kennedy, Mary Hindes
Kraft, May M.
Lamping, Emily R.
Lassen, Mary Lasine
Lawton, Bertha D.
Lohmeyer, Dora M.
Louis, Lena Sommers
Lucas, Ellen May
Lucke, Emma F.
Lynch, Rose
McCully, Elizabeth
Newell, Marion Furber
Odom, Helen Louise
Parlett, Nellie Sophia
Patterson, Alice G.
Patterson, Lillian H.
Rainey, Rose Leah
Reynolds, Elizabeth M.
Richardson, Grace H.
Robins, Aida Hill
Robins, Mabel H.
Saumenig, Charlotte M.
Spear, Edna
Starkloff, Jennie L.
Stewart, Florence
Stockwell, Martha
Taliaferro, Sarah C.
Taylor, Elizabeth M.
Thode, Amelia V.
Thomas, Delma S.
Walsh, Mary Agnes
Ward, Laura G.
Watkins, Minnie E.
Werking, Pearl E.
Whitehouse, Louise B.
Witts, Carrie M.
Witz, Ada Blanche
Wolf, Mary Ethel
Wright, Florence
Wehage, Louise
Young, Estelle

## RECIPIENTS OF PEABODY MEDALS.

### FIRST GRADE.

Charlotte M. Saumenig,
Carrie M. Witts,
Edna Spear,
Elizabeth M. Taylor.
Rose Hollander.

### SECOND GRADE.

Mamie K. Addison,
Bessie Burns,
Emma Florence Lucke,
Delma S. Thomas,
Pearl E. Werking,
Nellie G. Bowie,
Grace Aguilar Adler,
Emily R. Lamping,
B. Blanche Jones,
Rose Lynch.

### ADDITIONAL NUMBER RECEIVING TICKETS TO LECTURES AT PEABODY INSTITUTE.

Estelle Young,
Rose Baumgarten,
Ella Clementine Edel,
Elizabeth McCully,
Florence Stewart,
Marion Furber Newell,
Amelia Virginia Thode,
Lillie E. Hobbs,
Jeannette Blake Hodgdon,
Martha F. Stockwell.

# STATISTICS.

| | |
|---|---|
| Promoted from grammar schools June, 1897 | 389 |
| Failed to enter September, 1897 | 95 |
| Admitted from grammar schools | 294 |
| Examined from private schools | 14 |
| Admitted from private schools | 3 |
| Returned after summer vacation | 371 |
| Re-entered | 23 |
| Admitted from grammar schools | 294 |
| Admitted from private schools | 3 |
| Admitted from transfer | 22 |
| On roll after organization in September | 713 |
| Average number on roll during the year | 626 |
| Average number in attendance | 575 |
| Percentage of attendance | 91.5 |

CHANGES IN THE NUMERICAL CONDITION OF THE CLASSES.

| | 4th Year. | 3d Year. | 2d Year. | 1st Year. | Total. |
|---|---|---|---|---|---|
| On roll December, 1896 | 75 | 99 | 176 | 287 | 637 |
| On roll June, 1897 | 74 | 92 | 144 | 227 | 537 |
| Graduated June, 1897 | 74 | .. | ... | ... | 74 |
| On roll September, 1897 | 86 | 85 | 205 | 337 | 713 |
| On roll December, 1897 | 85 | 83 | 194 | 308 | 670 |

Amount of tuition fees collected from non-resident pupils..... $61 34

# CLASS RECITATIONS.

**Recitations Made Each Week by the Different Classes.**

M[1] AND M[2] CLASSES.—Astronomy, 3; Composition, 1; Drawing, 2; Elocution, 1; German, 3; History, 2; Music, 2; Mental Philosophy, 3; Trigonometry, 3; Latin, 5.

L AND K CLASSES.—Algebra, 2; Book-keeping, 2; Composition, 1; Drawing, 2; Elocution, 1; Geometry, 3; German, 3; History, 2; Literature, 2; Music, 2; Latin, 5.

I, H AND G CLASSES.—Algebra, 3; Composition, 1; Drawing, 2; Elocution, 1; Geometry, 3; German, 3; History, 2; Literature, 3; Physics, 3; Music, 2; Latin, 2.

F, E, D, C, B AND A CLASSES.—Algebra, 5; Composition, 2; Drawing, 2; Elocution, 1; History, 2; Literature, 3; Physics, 3; Physiology, 2; Music, 2; Geometry, 3.

# COURSE OF STUDY

—— IN THE ——

# FEMALE HIGH SCHOOL.

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## FIRST YEAR.

Algebra,
Composition,
Drawing,
Elocution,
History,
Geometry,
Literature,
Music,
Natural Philosophy,
Physiology.

## SECOND YEAR.

Algebra,
Composition,
Drawing,
Elocution,
Geometry,
German,
History,
Latin,
Literature,
Music,
Natural Philosophy.

## THIRD YEAR.

Algebra,
Book-keeping,
Composition,
Drawing,
Elocution,
Geometry,
German,
History,
Latin,
Literature,
Music.

## FOURTH YEAR.

Astronomy,
Composition,
Drawing,
Elocution,
German,
History,
Latin,
Mental Philosophy,
Music,
Trigonometry.

# Papers Relating to Colored High School.

## FACULTY

GEORGE LEWIS STALEY, Principal,
*Latin, Mental Philosophy, Moral Science, Etymology.*

MARY E. HUDGINS,
*Astronomy, Grammar, Trigonometry, Latin, Etymology.*

NELLIE M. O'CONNOR,
*Algebra, Book-keeping, Geometry.*

SARAH E. SEAGER,
*History, Physics.*

LIZETTE W. REESE,
*Composition, Rhetoric, Literature, Physiology.*

R. BELLE BROOKS,
*Elocution, Arithmetic, Grammar, Music.*

BETTIE MAKIBBIN,
*Drawing.*

## GRADUATES.

Anderson, Mary.
Carroll, Frances.
Golder, Lena.
Johnson, Jessie.
Morris, Sophia.
Taylor, Bernard.
Tucker, Cora.
Butler, Mary.
Garner, Joseph.
Hurst, Margery.
Mathews, Joseph.
Piper, Gertrude.
Thomas, Lillie.

## ROLL.

| | | |
|---|---|---|
| Number of pupils on roll December 31, 1896 | | 137 |
| Number of pupils admitted from public schools | | 51 |
| Number of pupils admitted from private schools | | 0 |
| Number of pupils re-entered | | 6 |
| Number of pupils transferred | | 1 |
| Number of pupils admitted by permit | | 10 |
| | | 205 |
| Graduates | 13 | |
| Withdrawn | 31 | |
| | | 44 |
| Now on Roll | | 161 |

## CLASS RECITATIONS.

**Recitations Made Each Week By Different Classes.**

Fourth Year.—Mental Philosophy, 2; Trigonometry, 2; History, 2; Literature, 2; Grammar, 2; Latin, 3; Elocution, 2; Drawing, 1; Music, 2; Algebra, 2; Composition, 1; Astronomy, 3; Moral Science, 1—25.

Third Year—Natural Philosophy, 2; Literature, 2; Latin, 3; Rhetoric, 1; Elocution, 1; Algebra, 3; History, 2; Geometry, 3; Drawing, 1; Music, 2; Composition, 1; Book-keeping, 2; Grammar, 2—25.

Second Year—Algebra, 2; Arithmetic, 1; Composition, 1, Latin, 3; Drawing, 1; Geometry, 3; History, 3; Literature, 2; Natural Philosophy, 2; Music, 2; Etymology, 2; Grammar, 2; Elocution, 1—25.

First Year—Etymology, 2; Literature, 2; Elocution, 1; Algebra, 2; Latin, 4; Arithmetic, 2; Physiology, 1; Natural Philosophy, 2; Music 2; Composition, 1; History, 3; Grammar, 2; Drawing, 1—25.

# COURSE OF STUDY

—IN THE—

# COLORED HIGH SCHOOL.

## FIRST YEAR.

Etymology,
Literature,
Elocution,
Algebra,
Arithmetic,
Physiology,
Natural Philosophy,
Drawing,
Music,
Composition,
History,
Latin,
Grammar.

## SECOND YEAR.

Algebra,
Composition,
Latin,
History,
Music,
Arithmetic,
Drawing,
Geometry,
Literature,
Natural Philosophy.
Etymology,
Grammar,
Elocution.

## THIRD YEAR.

Literature,
Rhetoric,
Algebra,
History,
Drawing,
Music,
Natural Philosophy,
Elocution,
Geometry,
Latin,
Composition,
Grammar,
Book-keeping.

## FOURTH YEAR.

Mental Philosophy,
History,
Literature,
Grammar,
Latin,
Composition,
Moral Science,
Trigonometry,
Algebra,
Elocution,
Drawing,
Music,
Astronomy.

# PAPERS RELATING TO COLORED POLYTECHNIC INSTITUTE.

## FACULTY.

*Principal*,
WILLIAM R. RYAN,
DRAWING AND ENGINEERING.

*First Assistant*,
SAMUEL T. LESTER,
HIGHER MATHEMATICS AND ENGLISH.

*Instructors in Academic Department*,
WILLIAM M. MALOY, SECOND ASSISTANT,
SCIENCE AND ENGLISH.

HENRY DEUSSEN, THIRD ASSISTANT,
MATHEMATICS AND ENGLISH.

*Instructor in Wood-working*,
CHARLES J. P. SCHMIDT,
CARPENTRY, PATTERN-MAKING AND WOOD-TURNING.

*Instructor in Metal Department*,
JOHN E. AULD,
FORGE SHOP AND RAILING WORK.

*Instructor in Metal Working*,
FRANK W. WATERMAN,
MACHINE SHOP AND SHEET METAL WORK.

# THE COURSE OF STUDY—(General).

The complete course of study covers three years, and the school time of the students is about equally divided between mental and manual exercises. One hour per day is given to drawing, two hours to shop work, and two and a half hours to the usual academic studies.

The course of study embraces five parallel lines, as follows:

First—A course in English Language and Literature, Composition, United States Constitution and Civil Government, and Ancient and Modern History.

Second—A course in Science and Applied Mathematics, including Geology, Physics, Chemistry, Physiology, Mensuration, Book-keeping, Commercial Business, Typewriting and Engineering.

Third—A course in pure Mathematics, including Arithmetic, Algebra, Geometry and Trigonometry.

Fourth—A course in Free-hand, Architectural and Mechanical Drawing, Designing and Penmanship.

Fifth—A course of Tool Instruction, including Carpentry, Wood-carving, Wood-turning, Pattern-making, Moulding, Soldering, Brazing, Vise and Machine-shop Work, Care and Management of Steam Engines and Boilers, and Military Drill.

# ROLL.

| | |
|---|---|
| Number of pupils on roll December 31, 1896 | 84 |
| Number of pupils admitted from public schools | 63 |
| Number of pupils admitted from private schools | 4 |
| Number of pupils in school during year | 151 |
| Number of pupils withdrawn during year | 24 |
| Number of pupils graduated | 7 |
| | 31 |
| Number of pupils now on roll | 120 |
| Average number on roll during year | 95.94 |
| Percentage of attendance | 89.13 |

# GRADES FOR PRIMARY SCHOOLS.

[SEPTEMBER, 1895, AS AMENDED TO APRIL, 1896.]

## FIRST GRADE—FIRST YEAR.

READING—*First Half Year.*—Use objects or pictures, blackboard, slates, Fisher's card and reading chart. From the beginning lead the pupils to associate words with the things, qualities or actions of which they are the representatives. First present the object to their attention and then the word that names it. After a few simple words have been learned in this way, combine each object-word with other simple words to form sentences which the pupils are to be taught to read. Continue this exercise with a series of simple object-words. In all new sentences present repetitions of word-forms previously learned and introduce new words gradually. Teach writing from the first, beginning with small letters of the simplest forms, as wholes, and afterward combining the letters to form simple words. Give much repetition in new combinations of letters previously learned. Use the reading chart after the written forms of a few words have been thoroughly taught. Begin with script instead of printed words.

*Second Half Year.*—Swinton's Primer and First Reader. Supplementary reading to repeat word-forms in new sentences. Continue to practice writing words and sentences and reading them. In this and all subsequent reading work take special care to see that the thought to be expressed is in the mind of the pupil before requiring him to read aloud. Insist upon a distinct and audible utterance and correct pronunciation. Pupils must not be permitted to acquire the habit of drawling or reading disjunctively. Teach them to see whole phrases and to speak them as wholes. The articles *a*, *an* and *the*, and the unemphasized little words *in* and *to*, etc., should be pronounced as unemphasized prefixes. For example, *a float*, *a boat*, should be spoken as single words, like *afloat*, *about*, etc. Never allow the too common fault of hesitating in learning to read. Make the pupils familiar with the matter of each reading lesson by conversation and explanation, so as to lead them to read it at sight. To this end the new words of each lesson should be written on the blackboard and fully explained. The pupils should also be required to copy them into sentences before allowing them to read the lesson. Oral spelling from the reading lesson.

ARITHMETIC—*First Half Year.*—Teach numbers from one to twenty. *Second Half Year*—Teach to one hundred. Develop the *idea* of number, as wholes; with objects, numeral frame, marks, etc. While

doing this do not at first permit the pupil to *count* unless the objects to be counted are actually present. Treat each number above 1 with all possible combinations of the preceding numbers to produce it by adding, and with its separations by subtracting them from it—

*First.* With objects, numeral frame, marks, etc., without figures.

*Second.* With objects and figures.

*Third.* Mentally with abstract numbers.

*Fourth.* With simple practical examples.

Train the pupils to recognize the number at sight without conscious effort at counting, as they recognize the words, *day*, *man*, etc. Encourage the children to talk, but require their answers to be full and complete sentences.

Miscellaneous examples for rapid solution by adding and subtracting.

Appleton's First Lessons in Arithmetic to be used in oral teaching in all the grades. Follow closely the methods of the author, intended to develop arithmetical knowledge.

Slate Work—*First Half Year.*—Addition, the result to be no greater than 20. *Second Half Year.*—No greater than 100. Teach coins from one cent to twenty, inclusive; pint; quart; inch.

In advanced classes of this grade the teacher is expected to carry the pupils as far as the condition of the class will warrant. Such a class, properly graded, should be able to accomplish the work of the first half-year of the second grade.

Language.—Purpose: to accustom pupils to express what they know in correct forms of speech. Oral exercises from objects and pictures connected with the reading and observation lessons, including the lessons in numbers and whatever the ingenuity of the teacher may suggest. Use Hyde's or Sheldon's Language Lessons so far as applicable to First Grade.

Penmanship.—Begin with the thirteen small letters, combining them into short, easy words. Be careful that the copies set are in good writing. After the pupils are able to write fairly well, exercise them in copying easy sentences. Require them to read what they have written. The idea of form and symmetry is to be required at this point, rather than the making of nice lines. The copying of printed forms from books as an exercise must not be allowed.

Drawing.—One hour per week. The position of points, then of straight lines, with the names and shapes of the simplest geometric forms, and the drawing of objects based on these forms, also the bisection of lines.

Music.—New American Music Reader No. 1. Through page 12.

## SECOND GRADE—SECOND YEAR.

Reading and Spelling.—Swinton's Second Reader. Supplementary reading. Exercises in articulation and pronunciation. Written and oral spelling from the reading lessons. A few short pieces of suitable

poetry carefully learned and frequently recited. Require the pupils to write the words before spelling them orally by letters. Accustom pupils in written spelling to recognize all the characters in the word-forms, such as the *apostrophe*, etc. Require them to memorize the alphabet as an acquisition for future use. Observe directions in previous grade.

ARITHMETIC.—Combinations and separations of numbers to one thousand.

Adding, subtracting and multiplying—

*First.* Without figures.

*Second.* With figures, using no amounts or minuends greater than one thousand or multipliers greater than nine. Roman numerals to C.

Coins continued. Pint, quart, gallon. Pint, quart, peck and bushel. Hour, day, week, month and year. Dozen. Inch, foot and yard. Ounce and pound.

SLATE WORK.—Write and read numbers containing six figures. Addition, subtraction and multiplication with not more than three figures as a multiplier. Simple practical problems. Teach well the multiplication table through 9x12. Illustrate the construction of the table with objects, the numeral frame, etc. Give oral drills in rapid combinations of numbers.

LANGUAGE.—Work of first grade continued. Short stories told or read to the pupils and reproduced by them orally. Pupils to give expression to thoughts suggested by objects and pictures or by observation lessons. Use Hyde's or Sheldon's Language Lessons so far as applicable to First and Second Grades.

PENMANSHIP.—*First Half Year.*—Review the writing of the small letters and teach the writing of all the capitals and all the marks of punctuation. Give daily practice in writing words and sentences taught in the language and reading lessons. Give exercises in writing from dictation and transforming printed language into script. Accept no careless work.

*Second Half Year.*—Practice in movements of the arm, hand and fingers with the pen held correctly, using suitably ruled copy-books for such work—

*First.* Copying from the blackboard or from slips.

*Second.* Writing selections in script from the reading book.

*Third.* Words, phrases, sentences and short stories from dictation.

DRAWING.—One hour per week. Books with straight line designs are provided, additional forms taught, with the trisection of lines.

MUSIC.—New American Music Reader No. 1. Through page 20.

## THIRD GRADE—THIRD YEAR.

READING.—Swinton's Third Reader. Exercises in articulation and pronunciation. Written and oral spelling selected from Swinton's Third Reader. A few appropriate selections of poetry carefully read, learned and frequently recited. Observe directions in previous grades.

ARITHMETIC.—The text-book in this grade is to be used for *reading* and *thinking* as well as for drill work.

Writing and reading integers to and including millions. Miscellaneous exercises in addition, subtraction, multiplication and division of integers. In long division the divisor not to exceed four figures.

Multiplication table reviewed and continued through 12x12. Roman numerals to M, and ordinal numbers as needed in connection with the reading and other lessons.

Coins previously studied and paper currency. Second, minute, hour, day, week, month and year. Time of day by the clock. Units of dry and liquid measure previously studied, thoroughly reviewed. In this grade the ground rules—addition, subtraction, multiplication and division—thoroughly reviewed; collateral practice with exercises for rapid execution—adding columns of figures, etc.

PENMANSHIP.—Practice in movement of the arm, hands and fingers with the pen held correctly. Use practice paper one hour a week. One writing book, or its equivalent, completed each half year. Copying from the blackboard. Writing selections and dictation exercises in blank books.

LANGUAGE.—Work of second grade continued with oral and written exercises; short stories read silently and then reproduced orally and in writing; stories written from pictures; letter writing begun. Statements, questions and commands. The pupils must be able to illustrate the proper use of each by original examples, both oral and written.

Correct use of names, persons, cities, streets, the days, months and seasons.

Correct use of the words *I*, *uncle*, *aunt*, *you*, *is*, *are*, *was*, *were*, *has* and *been*.

Correct use of the abbreviations *Mr.*, *Mrs.*, *St.* (street), *Av.* (avenue), *Co.* (county), and those of the names of the days and months.

How to write addresses, dates and initials. Use of the apostrophe in common constructions. Quotations, use of the comma with the names of persons addressed.

Good models illustrating points in capitalization and punctuation to be copied by the pupils.

Exercises on the pronunciation of words commonly mispronounced.

Daily systematic written exercises consisting of short letters, with correct heading, salutation, signature and superscription, reproduction of short stories (first oral, then written), brief descriptions of pets, games, familiar occupations, pictures and stories told and written from them and answers to questions in correct sentences.

Special attention to penmanship, spelling, capitalization and punctuation in every exercise.

GEOGRAPHY—*Second Half Year.*—Give conversational lessons on plants, animals, people of different countries and climates, traveling by land and water, etc. Teach the natural divisions of land and water. Cardinal points of the compass. Names of the hemispheres, continents, oceans and grand divisions. General idea of our own country, State and city. Make the study interesting to the pupils, and endeavor by all means to create in their minds clear conceptions of geographical terms. Use the lessons of the book as reading and

thinking lessons. All terms and definitions should be learned with accuracy after they are clearly understood. Use either Swinton's or Frye's Primary Geography.

Lessons to develop ideas of—

(1) *Color*—Red, orange, yellow, etc.
*Form*—Sphere, cylinder, cube, etc.
*Place*—On, above, under, before, etc.
*Size*—Large, small, great, little, etc.
*Qualities of Objects*—Rough, smooth, sweet, etc.
(2) *Lessons on the Human Body*—Parts, use and movement, etc.
(3) *Familiar Plants*—Flower, leaf, stem, root, etc.
*Animals*—Cat, dog, horse, cow, etc.
*Things*—Objects in the school-room, etc.

The lessons on this subject should be purely oral with conversational illustrations. One hour a week, at such times as may be most suitable.

DRAWING.—One hour per week. The circle and its parts, the ellipse and oval with flat copies and object lessons based upon the above forms.

MUSIC.—New American Music Reader No. 1. Through page 33.

SEWING—*First Half Year.*—Practice correct position, thimble exercise, holding the needle, holding the work, moving and threading the needle, making a knot, using scissors. Stitching canvas, using chenile needle and split zephyr. Basting, running, back stitching, overcasting, hemming, seaming.

*Second Half Year.*—Instruction about implements and materials for sewing. Inch measure. Review, practical work, using colored cotton and sewing needle.

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In all the grades make a list of words that pupils most frequently mispronounce, and drill them in their correct pronunciation; also give frequent and thorough drill upon words containing the vowel sounds properly grouped and arranged.

Particular attention should be paid to addition in all the grades. See that pupils perceive readily the sum of integers without resorting to the counting process.

Principals are authorized and expected to promote to higher grades during the year such pupils as shall evince ability to pursue the studies of the higher grades.

In this course of study more attention should be given to language and reading than to abstract work; and it is expected that principals will see that their assistants understand and follow closely the directions given in the present schedule.

The perceptive faculties should be brought into prominent exercise, as this is the law of childhood and youth. The disposition to discover impels them to activity. Hence the teacher, to be successful with children, must accustom them *to do* and discover for themselves. Train the eye to see, the ear to hear, the hand to do, and through these the mind to think.

# GRADES FOR GRAMMAR SCHOOLS.

[SEPTEMBER, 1886 AS AMENDED TO APRIL, 1896.]

## FOURTH GRADE—FOURTH YEAR.

LANGUAGE.—Newell's Third Reader. At least five exercises of an hour each per week. Spell the words in the first half of Newell's Third Reader and those the pupils misspell in written exercises. Continued application of what has been taught in the preceding grades. The two parts of a statement. Use of nouns, proper and common. Plural and possessive forms of nouns. Words that describe and point out objects. Words that assert. Words that show *how*, *when* and *where*. Words used instead of names. Objective and possessive forms of pronouns. Use of *I*, *he*, *she*, etc., after *is* and *was*. Words that show relation. Oral and written reproductions, at least once a week, of short stories, and stories from pictures, descriptions of familiar objects, brief letters, special attention being given to their form. Dictation exercises. Short poems to be studied and memorized. Daily systematic written exercises. Special attention to spelling, penmanship, capitalization and punctuation in every written exercise. Exercises in the pronunciation of words commonly mispronounced. Supplementary reading. One writing-book or its equivalent, completed each half year. Recitation of appropriate selections.

HISTORY.—First half of Eggleston's First Book of American History.

ARITHMETIC.—Written and mental. Addition, subtraction, multiplication and division of United States money (no decimal divisors or multipliers). Denominations, *in common use*, of dry measure, long measure, liquid measure, and time, with examples involving their practical application. Common fractions to multiplication. Endeavor to make pupils quick and accurate in working examples in the simple rules.

GEOGRAPHY.—Elementary. New England States and North America. Draw, from memory, map of North America. Frequent drills upon the outline maps of the world.

DRAWING.—One hour per week. Review the work of the preceding years, more attention being given to accuracy of form and finish.

MUSIC.—New American Music Reader No. 2. Through page 28.

Sewing.—Develop the cotton plant from the sowing of the seed to the manufacture of cloth. History of the cotton gin. Names of the threads in all woven fabrics. Review work of preceding grade, using half-bleached cotton cloth, with red and blue cotton, the blue marking the improvement in the work. Basting, running, stitching, hemming, overcasting, overhanding.

Science.—Dulany's Health Primer. To be used as a supplementary reader.

## FIFTH GRADE—FIFTH YEAR.

Language.—Newell's Fourth Reader. At least five exercises of one hour each per week. Supplementary reading. Spell the words in the speller from page 15 to page 31, and those the pupils misspell in all written exercises. Continued review and application of the principles taught in the preceding grades. Principal uses of capital letters. Pronouns used as subjects of verbs. Adjectives—Uses of different forms of adjectives; special study of adjectives commonly misused. Verbs, transitive (active and passive forms) and intransitive. Adverbs—Give special attention to negatives. Use and position of modifiers. Use of the comma to separate words and phrases in the same construction. Distinction between adjective and adverb. Prepositions—Special study of prepositions commonly misused. Conjunctions and interjections. Simple and compound sentences. Choice selections to be studied and memorized. Dictation exercises. Correct use of paragraph. Composition—Weekly; descriptions of familiar things and events; letters, the subject being assigned by the teacher, and compositions upon other subjects in which the pupil must give the results of his own observation. Exercises in the pronunciation of words commonly mispronounced. Daily systematic written exercises. Special attention to spelling, penmanship, paragraphing, capitalization and punctuation in every written exercise. One writing-book or its equivalent completed each half year. Recitation of appropriate selections.

History.—Second half of Eggleston's First Book of American History.

Arithmetic.—Written and mental. United States money. Common fractions and decimals. Continue the exercises involving the tables studied in the fourth grade. Explain at the blackboard how the common denominations of square measure are derived from those of long measure, and teach the denominations of square measure *in common use* with simple examples involving their practical application. Frequent practice in the four rules, especially addition.

Geography.—Elementary. Middle Atlantic States, United States, South America. Draw, from memory, maps of Maryland and South America. Frequent drills upon the outline maps of the world.

Science.—Dulany's Physiology. To be used as a supplementary reader.

DRAWING.—One hour per week. The simplest "working drawings" introduced, and more attention given to sketching leaves and fruit from nature, with the first steps in original design suggested.

MUSIC.—New American Music Reader No. 2. Pages 29–36, and Keys of G. & D.

SEWING.—Patching, stocking darning, resoling stockings, hemming gathers and half-back stitch gathers to bands, tucking, gathering, placket, band.

## SIXTH GRADE—SIXTH YEAR.

LANGUAGE.—Newell's Fourth or Fifth Reader. History of Maryland. Supplementary reading. At least five exercises, one hour each, per week. Spell the words in the speller from page 31 to page 46, and those the pupils misspell in all written exercises. Review and continued application of the principles taught in the preceding grades. Nouns—Singular and plural forms, possessive forms, including compound possessive, and the ways of distinguishing their gender. Pronouns—Personal pronouns, gender, number and case forms; adjective pronouns. Verbs—Person and number forms of verbs; tense, present, past and future; uses of the auxiliaries *shall* and *will*; regular and irregular verbs; participles; principal parts of common verbs, and much practice in using the past tenses and past participles of such verbs in sentences; careful study of *shall* and *will*, *should* and *would*, *learn* and *teach*, *may* and *can*, *lie* and *lay*, and other words commonly misused. Dictation exercises. Careful study of choice selections, with especial reference to the thoughts expressed. Weekly exercises in composition upon topics similar to the ones suggested in the preceding grades. Exercises in the pronunciation of words commonly mispronounced. Special attention to spelling, penmanship, paragraphing, capitalization and punctuation in every written exercise. Recitation of appropriate selections or declamation. One writing book or its equivalent completed each half year. Recitation of appropriate selections.

HISTORY.—Eggleston's History of the United States to Chapter 23.

ARITHMETIC.—Written and mental. Compound numbers. Explain at the blackboard and by cubes how the common denominations of cubic measure are derived from those of long measure. Teach the pupils to perform with ease and accuracy operations in the simple rules and fractions. Practical examples involving the rules taught.

ALGEBRA.—To page 46, Section 80.

GEOGRAPHY.—Higher. Southern States. Central and North Central States. Europe. Draw from memory maps of Maryland and Europe. Frequent drills upon the outline maps of the world.

SCIENCE.—Dulany's Physiology. One lesson a week. Teach the portions relating to hygiene and the nature of narcotics and alcoholic stimulants.

DRAWING.—One hour per week. More attention is given to construction, and from these drawings the objects are made of paper or wood.

Music.—Review previous keys, and teach keys of A and E.

Sewing.—Felling. Buttonholes, loops and eyelets. Tear darning. French hem. Buttonholes and buttons.

## SEVENTH GRADE—SEVENTH YEAR.

Language.—Newell's Fifth Reader and the History of Maryland. Spell the words in the speller from page 46 to 61, and those the pupils misspell in all written exercises. Review and continue to apply the principles taught in the preceding grades. Special study of the verb. Review what has been taught about verbs in the preceding grades, and study in addition their manner of asserting. The infinitive. Use of phrases. Independent and dependent clauses. Complex sentences. Relative pronouns—forms of *who*. Distinctive uses of *who*, *which* and *that*. Interrogative pronouns. Use of comma in explanatory, intermediate and transposed expressions. Quotations, direct and indirect. Use of quotation marks in divided quotations. Careful study of choice selections, with especial attention to the thought expressed. Compositions, weekly, on familiar topics, as in preceding grades. Analysis of simple, complex and compound sentences. Recitation of appropriate selections and declamation. Exercises in the pronunciation of words commonly mispronounced. Special study of letter-writing, giving particular attention to business letters, and to the different forms of heading, address, salutation, conclusion and superscription required for letters of various kinds. Business forms, including bills, receipts, advertisements, notices of public meetings, telegraphic dispatches, etc. Supplementary reading. Constitution and Bill of Rights of Maryland to be used as supplementary reading at least once in two weeks. One writing-book, or its equivalent, completed each half year. Making out bills. Recitation of appropriate selections. Declamation.

History.—Eggleston's History of the United States to Chapter 37, reviewing sixth grade.

Arithmetic.—Written and mental. Percentage, profit and loss, interest, ratio and proportion, discount and partnership. Practical business examples involving the rules which have been taught.

Algebra.—To page 135.

Geography.—Rocky Mountain and Pacific States. Europe reviewed. Africa. Draw, from memory, maps of Maryland and Africa. Frequent drills upon the outline maps of the world.

Science.—Dulany's Physiology. One lesson a week.

Drawing.—One hour per week. Parallel perspective is taught in addition to construction and surface decoration.

Music.—Review previous keys and teach keys of F and B♭.

Sewing.—Gussets. Gores. Bias-cutting and piecing. Facing. Plaiting. French gathers. Overhand gathers to band. Hooks, eyes and loops. Inserting.

## EIGHTH GRADE—EIGHTH YEAR.

LANGUAGE.—Newell's Sixth Reader and the History of Maryland. Supplementary reading. Constitution of the United States and the Declaration of Independence to be used as supplementary reading at least once in two weeks. Continue to review and apply the principles taught in the preceding grades. Thorough review of the grammatical principles taught in the fifth, sixth and seventh grades, and more extended work in connection with the careful study of sentences from standard writers. Study in particular—Nouns—Classes, number, gender, case, and leading construction in different sentences. Pronouns—Classes and declension of personal pronouns. Adjectives—Comparison and correct use. Verbs—Classes, mode, tense, and use of auxiliary verbs. Participles and infinitives. Offices of adverbs. Coordinate and subordinate conjunctions. Sentences—Kinds, structure, analysis and uses. Forms and uses of phrases and clauses. Exercises in the pronunciation of words commonly mispronounced. Careful study of choice selections of poetry and prose, with especial reference to the thought expressed. Compositions at least once a week upon topics similar to those suggested in the preceding grades. Letter-writing and business forms. Declamation and the recitation of appropriate selections. Exercises in writing to be connected with book-keeping and composition. Recitation of appropriate selections. Declamation.

HISTORY.—Complete Eggleston's History of the United States, reviewing the sixth and seventh grades.

ARITHMETIC.—Written and mental. Finish the book, giving particular attention to the subjects taught in the preceding grades, and the following: Commission and brokerage, involution, evolution, mensuration (in connection with this subject review square and cubic measure), single entry book-keeping.

ALGEBRA.—Teach through quadratic equations.

GEOMETRY.—*Male Grammar School.*—Wentworth. Books I., II. and IV. to proposition XIV.

*Female Grammar School.*—Brooks. Books I., III. to proposition VII., IV. to theorem XV. Practical problems in geometrical construction, pages 93–102.

GEOGRAPHY.—Asia, Oceania and Maryland. Draw, from memory, maps of Maryland and Asia. Frequent drills upon the outline maps of the world.

SCIENCE.—First half year—Physics to acoustics. Second half year—Dulany-Martin's Human Body.

DRAWING.—One hour per week. Angular, perspective and geometric work added to the subjects previously taught.

MUSIC.—Review previous keys; teach keys of E*b* and A*b*, and pieces in one, two and three parts.

SEWING.—Ornamental stitching—Hem, herring-bone, feather, chain, Kensington outline, blanket, tapestry. Button-holes in cloth. Cloth darning.

# GRADES IN GERMAN FOR THE ENGLISH-GERMAN SCHOOLS.

## FIRST GRADE—FIRST YEAR.

SPEAKING.—The class-room language for both teachers and pupils should be German. Answers to questions should be required individually and in complete sentences. No time nor pains should be considered too great a sacrifice if thereby the child learns to speak in the language. Characterize your vowels, "Umlaute," *w*, and *s*.

READING.—"Deutsches Lesebuch," by W. H. Rosenstengel and Emil Dapprich. Book I.

Method based on phonetic principles. Use introductory part of book so far only as is absolutely necessary to give an idea of sound representation. Enter upon connected reading in the second part as soon as possible and revert to first part to give special drill on new letters as they occur. It is not necessary to take every word in the exercises. Connected pieces in the second part need not be taken in the order of the book, but can be selected according to purpose. The following pieces are recommended for the initiative: page 42, "Was grad ist;" page 44, "Ich liebe die Blumen;" page 48, "Wie die Dinge sind;" page 41, "Was ich kann." From these pieces, written on the board stanza by stanza, children can be called upon to find sentences or lines, then words, and finally sounds.

German reading advances more slowly in the beginning than does English reading, not because it is not logical or approachable, for in this it has an advantage over the English, but because of the longer words. The child forms the slow habit of sounding out a word letter for letter. This can be counteracted somewhat by printing and writing some of the more common words on cards or pieces of model paper and having them read after momentary exposure. If started at the beginning of the year with a new class the task of making these cards will not be onerous. As soon as children show that they are gaining a grasp on the reading, they should be required to read sentences silently, and recite them without recourse to the book. The prose lessons should first be thoroughly gone over as object lessons, as oral lessons. In these lessons the children should be trained to enunciate clearly. They must learn to speak at all hazards; without ability to speak they will never acquire the power to think in the language, and in this case, reading would be an idle accomplishment. Teachers will please read "Suggestions to Teachers," given at the beginning of the Normal Third Reader.

WRITING.—German vertical script should be practiced. The customary German slant script set vertically is all that is necessary. At first copies can be set on the board for copying; but copying should be

dispensed with or reduced to a minimum as soon as possible. Sentences from the reading lesson written by the teacher, read and sounded by the pupil, should be erased or covered by the teacher and then written from memory by the children. The copies can then be uncovered or rewritten for comparison. Copying does not employ the mind on a sufficiently high plane. Children should be trained to write at least one or two short prose pieces in their entirety from memory during the year.

LANGUAGE.—Language lessons in this grade should be confined to object lessons (or elementary science), and stories to be orally reproduced by the children both in answer to questions and in connected narrative. Teachers should practice on sketch drawings to illustrate their work. Of all the lessons in the primary school the object lesson offers the most fertile field. There is an ample collection of reading selections in the first reader that can first be taken by the teacher as a basis for object lessons, and can finally be taken as reading lessons. Written symbols for words used should also be given, and some of the object lessons or stories written as suggested under "writing." For want of material, stories may be found in the reader, pages 48, 59, 60, 68, 77, 87, 89, 92, 101, 105, 106, 107.

MEMORY GEMS.—To be memorized and sung: page 84, "Hopp;" page 100, "Fuchs;" page 53, "Wenn ich;" page 52, "Wettstreit;" page 63, "In der Hecke;" page 65, "Der Mond;" page 96, "Mailied;" page 96, "Blumenstrauss," or equivalents.

ARITHMETIC.—The German teacher should also assist the English teacher in the mental arithmetic which is to be taught in German.

MUSIC AND DRAWING.—The German teacher is either to take charge of or assist in the teaching of these subjects at the discretion of the principal.

## SECOND GRADE—SECOND YEAR.

SPEAKING.—See first grade.

READING.—"Deutsches Lesebuch," by W. H. Rosenstengel and Emil Dapprich, Book I., to be finished up. See directions given to first grade German.

ORTHOGRAPHY.—This subject should be confined to dictation exercises written on the board by the teacher and gone over with the class before being dictated. These lessons can be selected from the reader. New words should be written on the board as they occur in the reading or talking lessons.

LANGUAGE.—See directions for first grade. The object lesson and the story should form the basis for language work. Frequent written resumés of the object lessons should be given. Teach recognition and capitalization of nouns.

MEMORIZING.—To be memorized and sung: page 46, "Komm lieber Mai;" page 64, "Sommervögelein;" page 72, "Vergissmeinnicht;" page 99,

"Kätzchen:" page 103, "Weihnachtsbaum." First grade reviewed. To be memorized: page 53, "Knabe;" pages 54, 58, 62, 74, 84, or an equivalent.

PENMANSHIP, ARITHMETIC, MUSIC, DRAWING, } See first grade.

## THIRD GRADE—THIRD YEAR.

SPEAKING.—See first grade.

READING.—"Deutsches Lesebuch," by W. H. Rosenstengel and Emil Dapprich, Book II., to page 73. New words not simply to be translated but to be discussed in German, written on the board and applied in sentences. See "Suggestions to Teachers," Normal Third Reader. See also directions to first grade in German.

ORTHOGRAPHY.—See second grade directions.

LANGUAGE.—Object lessons (or science) and stories told by the teacher and reproduced orally should form the main part of the language work. New words occurring in the same should be written on the board and studied in connection with the lesson that introduces them. Have at least one object lesson or story written out from memory during each month, but do not expect the children to write correctly words with which they have not become thoroughly familiarized, both as to symbol and meaning.

GRAMMAR.—Articles, nouns singular and plural number, capitalization. Consult E. Hähnel and R. Patzig, "Deutsche Sprachschule," Part I., and model your exercises according to the same. The following sub-sections refer to the grammatical portions of the book: 1–10; 20–26; 108–125; 126–139, all inclusive. Time permitting, the dictation exercises and orthographical exercises are also recommended to be taken from Hähnel and Patzig.

Translation exercises should be reduced to a minimum to give more time for object-lessons, story telling and memory gems. They should be confined to free renditions of the gist of the reading lessons in both languages.

MEMORY GEMS.—To be memorized, recited, and sung: Volkslieder, numbers 1, 3, 4, 6, 8, 11, 12; and page 98, number 142; page 122, number 166, or an equivalent. To be memorized and recited: reading matter, numbers 7, 16, 36, 40, 51, 56, 80, or an equivalent.

PENMANSHIP.—Taught with all written exercises; no poor work to be accepted; German script vertically written. See directions to first grade.

ARITHMETIC, MUSIC, DRAWING, SEWING, } See first grade.

## FOURTH GRADE—FOURTH YEAR.

SPEAKING.—See first grade.

READING AND ORTHOGRAPHY.—See directions to first and second grades as well as to other grades; also "Suggestions to Teachers" in the Normal Third Reader. Finish up "Deutsches Lesebuch," by Rosenstengel and Dapprich, Book II., pages 74 to the end and review. Children in this grade ought to be able to narrate in English as well as in German the substance of their German reading lesson, to explain and illustrate terms in their reading lesson by means of the German language, and to substitute synonyms given and explained for terms in the same. They should also be made conscious of metaphorical language (Bildlichkeit).

LANGUAGE.—The object lesson (or science lesson) should again offer the material for at least one composition a month. There should be two written reproduction exercises a month, and also one simple letter as often.

GRAMMAR.—Simple sentences containing one subject or more, and a predicate expressed by a noun, an adjective or a complete verb. Declension of nouns, articles and descriptive adjectives, and comparison of the latter. Exercises are recommended to be taken from or modeled according to Hähnel and Patzig, "Deutsche Sprachschule." Part II. The following sub-sections cover the grammatical work: 1–4; 13–16; 17–25; 35–37; 52–66; 81–115; 116–119; 129–149; 167–176; 179–190; 195–201; 207–209.

TRANSLATION.—The following, omitting all fine print, are to be translated into German and some of the written exercises to be retranslated into English: Frye's Primary Geography, sections 4, 8, 13, 15, 17, 21, 22, 90 and 110–113, inclusive; Physiology Primer, pages 97–102, inclusive; history, Montgomery's Beginners' American History, Sections 123–134, inclusive; or Eccleston's First Book, chapters 18 and 19. With physiology and history it will be well to narrate the subject matter in German for oral reproduction before giving the same for translation. New words and phrases should be written on the board and studied. Free translations of the reading lessons.

PENMANSHIP.—Substitute the English vertical script for the German script from the fourth to the eighth grade.

MEMORY GEMS.—To be memorized, recited, and sung: Volkslieder, numbers 7 and 10; reading text, numbers 22, 63, 76, 104, 109 and 121. To be memorized and recited, numbers 25, 76, 83, 99 or 100, 117, 119, 139, 145, 146, 149, 154, 162 and 171, or an equivalent. Review preceding grades.

MUSIC,
DRAWING,
SEWING, } See first grade.

## FIFTH GRADE—FIFTH YEAR.

SPEAKING.—See directions to first grade.

READING.—"Deutsches Lesebuch," by Rosenstengel and Dapprich, Book III., the following numbers, inclusive, 1–12; 21–31; 39–47; 61–73; 86–89; 96–103; 110–120; 129–136. See directions given to fourth grade, and "Suggestions to Teachers" in the Normal Third Reader.

ORTHOGRAPHY.—Connected with all subjects. See directions to second grade.

LANGUAGE.—One letter per month at least. One composition per month developed with the class from original sources. Two written reproduction exercises per month.

GRAMMAR.—Adjective elements (attributes), possessive pronouns, numeral adjectives, verbal complements (objects in the accusative, dative, and genitive cases).

Exercises to be taken from or modeled according to Hähnel and Patzig, "Deutsche Sprachschule," Book III. The following subsections cover the grammatical ground: 2–17; 35–58; 115–129; 135–139; 141–151; 190–218. Other sections if time permits.

TRANSLATION. The following, omitting all fine print, are to be translated into German, and some of the written exercises to be retranslated into English: Frye's Primary Geography, Sections 23–26 inclusive, 30–56 inclusive, 86, 88, and 89; Dulany's Physiology, pages 33–44 inclusive; history, Montgomery's Beginners' Book, sections 243–255 inclusive; or Eccleston's First Book, chapters 29 and 30. About history and physiology see directions to fourth grade. Free translations of the reading lessons.

MEMORY GEMS.—To be memorized, recited, and sung: Volkslieder, numbers 1, 2, 5, 6 and 7. Those of other grades reviewed. To be memorized and recited: reading selections, numbers 1, 20, 38, 47, 61, 65, 78, 85, and 131, or equivalents. Review of other grades.

PENMANSHIP.—See fourth grade.

MUSIC,
DRAWING,
SEWING, } See first grade.

## SIXTH GRADE—SIXTH YEAR.

SPEAKING.—See first grade.

READING.—"Deutsches Lesebuch," by Rosenstengel and Dapprich, Book III., the following numbers, inclusive: 12–20; 32–38; 48–60; 74–85; 90–95; 104–109; 121–128; 137–146. See directions to fourth grade.

ORTHOGRAPHY.—Taught with all subjects. Dictation exercises from the reader, or from Hähnel and Patzig, "Deutsche Sprachschule." See second grade.

GRAMMAR.—Prepositions, adverbial elements, conjugations, participles and declension of indefinite pronouns. Exercises to be taken from or modeled according to Hähnel and Patzig, "Deutsche Sprachschule," Book IV. The following sub-sections cover the grammatical ground: 1–2; 17–55; 100–129; 141–163.

COMPOSITION.—One original composition a month. One letter or note per month (see English work). Two reproduction exercises per month. Three or four poems transposed during the year.

TRANSLATION.—The following, omitting all fine print, are to be translated into German, and some of the written exercises to be retranslated into English for comparison: Frye's Primary Geography, sections 87, 91–94 inclusive; 115–117 inclusive; Dulany's Physiology, pages 87–99 inclusive; history, Montgomery's Leading Facts, sections 102–108 inclusive; or Mowry's, chapters X. and XI.; or Johnston's, sections 89–110 inclusive; or Eccleston's, chapters X. and XI. Concerning history and physiology see directions to fourth grade. Free translations of the reading lessons.

MEMORY GEMS.—To be recited and also sung: Volklieder, numbers 8, 10 and 11. Reading matter, number 41. Review of songs learned in preceding years. To be memorized and declaimed, numbers 39, 60, 67, 85, 86, 90, 102, or an equivalent. Review other grades.

PENMANSHIP.—See fourth grade directions.

DRAWING,
MUSIC,
SEWING. } See first grade.

## SEVENTH GRADE—SEVENTH YEAR.

SPEAKING.—See first grade.

READING.—"Deutsches Lesebuch," by Rosenstengel and Dapprich, Book IV. The following numbers are to be read inclusive: 1–6; 13–28; 45–102; 164–171; 180–193; 204–223. See directions to fourth grade. Begin to handle reading matter from a literary point of view.

ORTHOGRAPHY.—See directions to sixth grade.

GRAMMAR.—Syntax of simple, compound, and complex sentences. Review of former grades.

Exercises to be taken from or modeled according to Hähnel and Patzig, "Deutsche Sprachschule," Book V. The following sub-sections cover the grammatical ground: 1–14; 31–34; 41–49; 78–119; all of which numbers are to be considered inclusive.

COMPOSITION.—One original composition monthly; one letter or note monthly; two reproduction exercises per month; four or five short poems transposed into prose during the year; written synopses of the reading lessons. See English grade work.

TRANSLATION.—The following, omitting all fine print, are to be translated into German, and some of the written exercises recast into

English: Frye's Complete Geography, sections 32–54 inclusive, and 76–85 inclusive; Dulany's Physiology, pages 125–133 inclusive; history, Montgomery's Leading Facts, sections 183–190 inclusive; or Mowry's, chapter 49; or Johnston's, sections 245–262 inclusive; or Eccleston's, chapters 30 and 31.

Concerning history and physiology see directions to fourth grade. Free translations of the reading lessons.

MEMORY GEMS.—To be recited as well as sung: Volkslieder, numbers 4, 6, 8, 10 and 11. Review of songs learned in preceding grades. To be memorized for declaiming: reading selections, numbers 51, 74, 90, 106, 117, 211, 212 and 229. Equivalents may be substituted. Review of other grades.

PENMANSHIP.—See fourth grade directions.

MUSIC,
DRAWING,
SEWING, } See first grade.

## EIGHTH GRADE—EIGHTH YEAR.

SPEAKING.—See first grade.

READING.—"Deutsches Lesebuch," by Rosenstengel and Dapprich, Book IV. The following numbers are to be read, inclusive: 7-12; 29–44; 103–163; 172–179; 194–203; 224–257. See directions to fourth grade. Reading matter should now be studied as literature. Give historical and biographical background. Study style, form and figures. Endeavor to rouse a love for the masterpieces of a rich literature.

ORTHOGRAPHY.—Refer to sixth grade.

GRAMMAR.—Analysis—substantive, adjective, and adverbial clauses, and general review. Exercises to be taken from or modeled according to Hähnel and Patzig, "Deutsche Sprachschule," Book VI. The following sub-sections cover the grammatical ground: 1–9; 62–68; 83–84; 94–97; 106–107; 113–120; 128; 137; 146 and 147; 149 and 150; 167 and 168; 180–183; 191–193; 197–200; 208–211; 222 and 223; 228–232; 256, numbers between semi-colons inclusive.

COMPOSITION.—See seventh grade.

TRANSLATION.—The following, omitting all fine print, are to be translated into German and some of the written exercises recast into English: Frye's Complete Geography, sections 66–74 inclusive; Martin's Human Body, pages 223–236 inclusive; history, Montgomery's Leading Facts, sections 223–235 inclusive, or Mowry's, chapter 58, or Johnston's, sections 384–405; or Eccleston's, chapters 41 and 42. Relative to history and physiology see directions to fourth grade. Free translations of the reading lessons.

MEMORY GEMS.—To be recited as well as sung: Volkslieder, numbers 2, 3, 5, 12. Review of songs learned in preceding grades. To be memorized and declaimed: reading selections, numbers 77, 147, 155, 167, 213. Equivalents may be substituted.

PENMANSHIP.—See fourth grade.

MUSIC,
DRAWING,
SEWING,
} See first grade.

It is further recommended that much of the time-killing and barren grammatical drudgery can be dispensed with, to wit: writing of conjugations and declensions, reciting of abstractions and definitions, and dwelling on fine points, and that in their stead, where time can be gotten to the extent of from one hour to one and a-half hours per week, this time be devoted to the study of universal history as leading up to the better understanding of the history of our own country and of humanity. The profit is double—invaluable information and command of language. The medium of communication is oral language in its most attractive form to children. This means "Personal, face to face, 'elbow' instruction" (Dr. D. C. Gilman) with children.

This course should be brief and should consist of short biographies that typefy times. These sketches should be narrated to and exacted from the children by the teacher.

The following course is suggested:

FOURTH GRADE.—Preliminaries, one lesson; Persian History, Cyrus and Darius; Greek Mythology, very brief—the great gods only; the Heroes, Hercules, Theseus, Oedipus, Jason; the Trojan War, at some length; Lycurgus: Spartan Education; Olympian games; Solon; Pisistrates.

FIFTH GRADE.—The Persian War: Miltiades, Aristides, Themistocles, Xerxes, Mardonius, Leonidas, Pausanias; Alcibiades, Epaminondas, Philip, Demosthenes, Socrates, Plato, Aristotle, Herodotus, Phidias, Alexander.

SIXTH GRADE.—Roman history. Romulus, the seven kings (briefly); Brutus and Collatinus (Horatius, Cocles and Mucius Scaevola), Menenius Agrippa, Coriolanus, Cincinnatus, Appius Claudius, Camillus Decius Mus, Fabius Maximus, Pyrrhus, Hannibal, The Scipios, the Gracchi, Jugurtha, Marius, Sulla, Cinna, Pompey, Spartacus, Crassus, Catilina, Cicero, Cæsar, Cæsar Augustus.

SEVENTH GRADE.—Mediæval history, including the Roman emperors Tiberius, Nero, Titus, Marcus Aurelius and Constantine; The Great Migration, Alaric, Attila, Theodosius, Theodorich, Clovis, Justinian, Otto the Great, Mohammed, Charles Martel, Charlemagne, Hugh Capet, Hengist and Horsa, St. Augustine, Alfred the Great, William the Conqueror, Henry IV. of Germany, King John of England, the Crusades, the Hundred Years' War.

EIGHTH GRADE.—For this grade modern history to include the present in convenient periods.

Where the introduction of universal history is found desirable a start can be made by teaching the fourth grade course throughout the school; add the fifth grade course next year for all classes that have had the fourth grade course and so on until the entire course is given.

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Keeler & Davis' English Composition, with Lessons in Language—Allyn & Bacon.
Westlake's How to Write Letters—Christopher Sower Co.
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Lounsbury's English Language (New Edition)—Henry Holt & Co.
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## DRAWING BOOKS.

Prang's Complete Course, Form Study and Drawing, No. 8 to 10—Prang Ed. Co.
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Assistants' Gongs, B. & H., No. 2100.
Teachers' Ink Stands, with Rack.
Roll Books.
Knives for Sharpening Pencils, Eagle No. 2300.
Ink Vents.
Recess Bells.
LePage's Liquid Glue, with Brush.
Scissors.
Revolving Globes, 9 Inches in Diameter.
Hagerstown Mathematical Blocks.
Numeral Frame, Hand, 144 Balls.

## EXTRACTS FROM STATUTES AND ORDINANCES

RELATING TO THE

# PUBLIC SCHOOLS OF BALTIMORE CITY.

**(Baltimore City Code, 1893.)**

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## STATUTES.

776. The Mayor and City Council of Baltimore shall have full power and authority to establish in said city a system of free public schools, which shall include a school or schools for manual or industrial training, under such ordinances, rules and regulations as they may deem fit and proper to enact and prescribe; they may delegate supervisory powers and control to a Board of Public School Commissioners; may prescribe rules for building school-houses and locating, establishing and closing schools, and may in general do every act that may be necessary or proper in the premises.

777. The Board of Commissioners of Public Schools of Baltimore City shall have power to examine, appoint and remove teachers, prescribe the qualifications, fix the salaries, subject to the approval of the Mayor and City Council, and select text-books for the schools of said city, provided such text-books shall contain nothing of a sectarian or partisan character. They shall annually make a report to the State Board of Education of the condition of the schools under their charge, to include a statement of expenditures, number of children taught, and such other statistical information as may be necessary to exhibit the operation of the schools. * * *

778. The Mayor and City Council of Baltimore shall have power and authority to make all ordinances for the protection of the school-houses and property, and to punish any person who may disturb the sessions of said public schools.

779. They are authorized and empowered to levy and collect upon the assessable property in said city, as other taxes are levied and collected, such amount of taxes as may be necessary to defray all the expenses incurred for educational purposes by them.

780. The Treasurer, on the warrant of the Comptroller, shall pay to the Mayor and City Council the proportion of the free school fund to which said city is entitled.

781. The Orphans' Court of said city shall order and direct the fund arising from intestates' estates that may be administered upon in said court, and which remain undistributed for want of legal representatives of the intestates to claim the same, to be paid to the Board of Commissioners of Public Schools.

782. The court shall not make such order until they shall be satisfied that the intestate left no legal representative living at the time of his or her death, and they shall cause the administrator of such estate to give notice, by advertisement to be inserted for such periods of time and in newspapers published in such places as they may deem necessary, that upon default of the appearance of any legal representative of the intestate by a certain day, to be fixed by the court and named in said advertisement, the estate of said intestate will be paid to the Commissioners of Public Schools.

783. They shall, upon passing an order directing such payment, require from the Treasurer of the Board of Commissioners of Public Schools, or any other officer who may be appointed by the said Board of Commissioners, or the Mayor and City Council of said city, to receive such funds, a receipt and release to the administrator for the same.

784. The release shall contain an obligation that the said funds shall be applied by the Board of Commissioners of Public Schools to the use and support of the public schools of the City of Baltimore, and shall be recorded and preserved in said court as other records are.

785. If the estate of an intestate shall be paid to the Board of Commissioners of Public Schools under this law, and any legal representatives of the intestate of no remoter degrees among collaterals than brothers' or sisters' children, shall at any time appear and prove him, her or themselves to be such legal representatives, the Board of Commissioners of Public Schools who receive such estate, or their successors, if the same shall be in their hands or shall have been applied to the use of the public schools, shall restore the same to such legal representatives out of the school fund under their direction.

*Public General Laws of Maryland.*

(ARTICLE XLIII.)

31. No teacher in any school shall receive into such school any person as a scholar until such person shall produce the certificate of some regular practicing physician that such an applicant for admission into the school has been duly vaccinated. Any teacher so offending shall, on conviction thereof, forfeit and pay a fine of ten dollars ($10) for each offence, and no public school trustee or Commissioner shall grant a permit to any child to enter any public school without such certificate under the same penalty.

(ARTICLE LXXVII.)

40. The nature of alcoholic drinks and narcotics, with special instruction as to their effects upon the human system, in connection with the several divisions of the subject of physiology and hygiene,

shall be included in the branches of study taught in the common schools, and shall be taught to and studied by all pupils whose capacity will admit of it in all departments of the public schools of the State, and in all educational institutions supported wholly or in part by money from the State. * * * The said text-books must be published, printed and sold in the State of Maryland.

Sections 59, 60 and 61 of Article 77, repealed and re-enacted with amendments at Session of 1896, Chapter 135, and approved April 4, 1896.

59, as amended, provides for free books for all the schools in the State, and that the several Boards of School Commissioners shall furnish annually to the State Board of Education the title, the name of the publisher and the net price paid for each text-book purchased, which information shall be set forth in full in the annual report made by the State Board of Education.

61. The said several boards shall keep an account of all money expended under the provisions of this Act, and report the same in the annual financial accounts as required by law, and no money so received by them shall ever be used for any other purpose than for the purchase of school books, as provided by the two preceding sections.

SEC. 2. That the sum of one hundred and fifty thousand dollars ($150,000) be and the same is hereby appropriated to be paid by the State Treasurer, upon the warrant of the Comptroller, on the 1st day of August, 1896, and annually thereafter, and to be expended, or so much thereof as may be necessary, for the purchase of text-books, as provided in this Act.

SEC. 3. That the whole of said sum shall be apportioned by the Comptroller in the month of July of each and every year, as the State school tax is now apportioned, * * * to be paid to the treasurer of the boards in the same manner as the apportionment of the school tax is now paid.

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## ORDINANCES.

1. There shall be appointed by the two Branches of the City Council, in convention assembled, at the time and in the manner prescribed in Sections 2 and 3 hereof, twenty-two persons, to be called Commissioners of Public Schools, one Commissioner to be selected from each of the several wards of the city; and said Commissioners shall continue in office for the terms as prescribed in Sections 2 and 3 hereof; provided, that if any Commissioner shall remove from the ward from which he was appointed before the expiration of his term of office, then his place in the Board shall be declared vacant, and the Board may declare vacant the place of any Commissioner who shall absent himself from three successive stated meetings of the Board, without showing satisfactory cause for his non-attendance after having been duly notified of the same; the Mayor shall always be *ex-officio* a member of said Board.

2. The Commissioners of Public Schools who shall be appointed in the month of February, 1877, shall be appointed for one, two, three

and four years, which several terms of service shall be determined by lot at their first meeting and immediately after their organization by the election of a President and Secretary, as provided by Section 5 hereof; the members severally appointed for the First, Second, Third and Fourth Wards shall draw lots for their terms of service, which terms shall be one, two, three and four years respectively, as fixed by the lot then drawn; and the several members for each succeeding four wards, the wards being taken in numerical order, shall determine their terms of service in the same manner as aforesaid.

3. In the month of February, in each succeeding year, the First and Second Branches of the City Council, in convention assembled, shall elect School Commissioners in place of those only whose terms of office shall at that time expire, and the Commissioners elected, as prescribed by this section, shall continue in office for four years.

4. The First and Second Branches of the City Council, in convention assembled, shall have power to expel a member of the Board of Commissioners of Public Schools, either for persistent neglect of duty or for conduct unbecoming a School Commissioner. Should any vacancy occur in the Board by removal, resignation, death or otherwise, the unexpired term shall be filled in the same manner as provided by the preceding sections hereof.

5. Said Commissioners shall meet within ten days after their election, and at their first meeting they shall proceed to the election of President from their own Board, to be chosen by a majority of the whole body; also a person to act as Secretary, who shall serve one year, unless sooner removed by the Board, and who shall have charge of the rooms, books, papers and documents of the Board, and shall perform such clerical duties as may be required of him by its members or committees. The Board shall assign the duties to be performed by him, and his salary shall be two thousand dollars per annum, payable monthly. If a vacancy should occur in the office of Secretary from any cause whatever, it shall be the duty of the Board to elect a person to fill said vacancy as soon as it can conveniently be done. In all cases a majority of the Commissioners shall constitute a quorum for the transaction of business.

5a. (Approved March 28, 1893). Authorizes the employment of a Clerk to the Secretary, whose duty it shall be to assist the Secretary and Assistant Secretary.

6. Whenever a vacancy or vacancies shall occur in the Board of Commissioners of Public Schools during the session of the City Council, it shall be the duty of the President of the Board to inform the Mayor of such vacancy or vacancies, who shall communicate the same to the First and Second Branches of the City Council, who shall proceed in convention, according to their respective rules, to fill said vacancy or vacancies. If a vacancy or vacancies shall occur during the recess of the City Council, by death, resignation or otherwise, it shall be the duty of the Board to fill the same as soon as may be convenient, the person or persons so elected to serve until the next session of the City Council.

7. There shall be appointed by the Board a suitable person to be the Superintendent of Public Instruction for the City of Baltimore, who shall be a resident of the City of Baltimore, of literary and scientific acquirements, and of skill and experience in the art of teaching, and who shall serve for the term of four years, unless sooner removed by the Board. It shall be the duty of the Superintendent to devote his time and attention entirely to the general supervision of the public schools of the city, subject to such rules and regulations as the Board of School Commissioners may establish. It shall especially be the duty of the Superintendent to visit every school under the charge of the Board of Commissioners of Public Schools as often as once in each quarterly session, or four times during the academic year, to examine into its respective studies and to inquire into all matters relating to the government of the schools, such as its curriculum of studies, discipline and course of instruction pursued therein, the text-books that are used, the condition of the school houses, and to make a monthly report of the matters thus specified to the Board of Commissioners of Public Schools.

8. There shall be appointed by the said Board a suitable person to be the Assistant Superintendent of Public Schools, who shall be a resident of the City of Baltimore, of skill and experience in the art of teaching, and whose term of office shall be concurrent with that of the Superintendent.

9. It shall be the duty of such Assistant Superintendent of the Public Schools to aid the Superintendent in the supervision of the public schools of the city; he shall visit the primary schools as often as his duties will permit, and make a report of such visits to the Superintendent; he shall assist in the examination of the quarterly reports of teachers, in the preparation of the questions for the semi-annual examination of the classes of the primary and grammar schools, and be subject to such rules and regulations as the Board of Commissioners of Public Schools may establish.

10. In order to advance the interests of the schools committed to his charge the Superintendent, in conjunction with a committee of three members of the School Board, shall, in the forms prescribed by the Board, examine into and ascertain the qualifications of applicants for the situation of teachers, and re-examine, if necessary, any of the teachers employed in the schools under the charge of the Board; and in order further to promote the cause of sound education, and to elevate the character and qualifications of the teachers the Superintendent shall, by all the means in his power, counsel and advise with the teachers in relation to their duties and proper classification of studies, the best methods of imparting instruction, and, in general, as to the proper discipline and management of the schools under their charge.

11. The salary of the Superintendent shall be fixed by the Board of Commissioners of Public Schools, subject to the approval of the two Branches of the City Council; and he shall make annually a report in writing to the Mayor and City Council of all matters of interest or importance in connection with the schools; and shall also, when requested, furnish to the Board of Commissioners of Public Schools of the city a written statement showing the number of schools in the city,

the number of pupils under instruction and the teachers employed therein, with such additional information in respect to the matters above specified as may be deemed advisable and necessary.

12. The salary of the Assistant Superintendent of Public Instruction in Baltimore City shall be two thousand dollars ($2,000) per annum.

13. The Board of School Commissioners are authorized and directed to appoint annually, at the same time that the Secretary of the said Board is elected, a suitable person, a citizen of Baltimore, who shall be known as the Superintendent of Supplies.

14. It shall be his duty, under the instructions from the Board of School Commissioners, to supervise, take care of and have general control of all furniture, stoves, furnaces, fuel, repairs and other incidental supplies, which are now in possession of the Board, or which may be purchased by order of the Board; be responsible to the Board for their condition, and report from time to time as the Board may direct, and perform such other duties with reference thereto as may be required by the Board.

15. His salary shall be eighteen hundred dollars ($1,800) per annum, the amount to be taken out of the appropriation made to the said Board of School Commissioners for salaries.

16. The Register is authorized to receive, through the Secretary of the Board, all monies from the teachers and all other funds due the School Board, and pay out of the funds standing in the treasury of the city to the credit of the public schools any orders that are provided for in the levy for school purposes, after having been examined by the Committee on Accounts and passed by the Board, signed by the President and countersigned by the Secretary of the Board of Commissioners of Public Schools.

17. The said Board of Commissioners of Public Schools shall have charge of the public schools in operation in the City of Baltimore, and of all such as may be in operation during their continuance in office, and it thall be their duty to employ teachers and determine their salaries, subject to the approval of the Mayor and City Council; to prescribe the courses of study and the books to be used; to make all such by-laws for their own government and all such rules and regulations for the management of the schools as they may deem expedient, and to modify and repeal the same at their pleasure; provided, that such by-laws, rules and regulations so made or modified be not inconsistent with the laws of the State or the ordinances of the city. And it shall further be the duty of said Board, at such time as other city officers are required to report, to report to the Mayor and City Council a statement of their transactions, with an account of their receipts and expenditures during the year last passed, and their resources for the year then commenced. The schedule of salaries of all officers, employees and teachers shall stand as now fixed. (The Code contains the schedule).

18. The Commissioners of Public Schools shall have charge of all the buildings used for school purposes, and they are hereby authorized to make all necessary repairs in the school-houses of the city, provided the same shall not exceed the sum of three hundred dollars ($300).

19. The said Board is authorized and directed to rent out, except for political purposes, for such compensation as to them may seem just and reasonable, the main halls in the Eastern and Western Female High School buildings, for public purposes, at such times and under such regulations as to them may appear right and proper: provided, the same shall not be rented so as to interfere with or interrupt the regular exercises of the schools.

20. The revenue derived therefrom, as provided in the preceding section, shall be accounted for by the said Board and paid over by them to the Register, who is directed to place the same to the credit of the public school fund.

21. The said Board shall not employ in building, repairing or improving, or in furnishing stationery or any other kind of supplies, any member of said Board; nor shall any member of said Board be interested, directly or indirectly, in any contract whatever for the use of the public schools.

22. The Board of Commissioners of Public Schools shall advertise for proposals in the purchase of all supplies for said schools to the amount of *fifty dollars and over, and said proposals shall be opened in the presence of the City Comptroller, the City Register and a Committee of said Board, who together shall constitute a Board to award all contracts, except those for musical instruments, which shall be awarded as follows: The said Board of Commissioners of Public Schools, or its Committee on Music, shall select not less than three responsible and reputable manufacturers of the class of instruments required, and shall designate by proper specifications the character and style of the instrument to be furnished, and shall receive bids from those selected, which shall be opened before the above Board of Award, and the said Board of Award shall award the contract, in its discretion, to the lowest or next to the lowest bidder, for such a period as it may think proper, not to exceed five years.

23. In awarding all other contracts, the Committee of the Board of Commissioners of Public Schools shall have one vote, the Comptroller one vote and the Register one vote; but in awarding contracts for musical instruments each member of the Committee on Music shall have one vote, the Comptroller one vote and the Register one vote.

24. The salaries of the Superintendent, Assistant Superintendent and Secretary of the Board, and of the teachers and all other persons permanenty employed by the Commissioners of Public Schools, shall be paid monthly, on the last day of each month, by the City Register; and he is hereby authorized, in case of any deficiency in the collection of the school fund, or in anticipation of the levy for the same, to advance, from time to time, to said fund such sums as shall be required for the payment of said salaries at the time when they shall be due.

25. There shall be no charge for tuition, or for the use of books and stationery in any of the public schools, but it shall be the duty of the Commissioners to furnish, free of all cost, to the pupils and their

*By ordinance approved April 18, 1894, this amount was made "not in excess of two hundred dollars."

parents all the necessary tuition and the use of books and stationery for the several schools, and in general whatever fuel or other supplies the schools may require—the same to be paid for from the public school fund.

26. The public schools of Baltimore are designed exclusively for the education of those pupils whose parents, or in the case of orphans whose guardians are citizens of Baltimore, or residents of Baltimore with a *bona-fide* intention to become citizens.

27. The Board of Commissioners of Public Schools are hereby directed, before admitting the children of non-resident parents or guardians into the public schools of the City of Baltimore, to charge such parents or guardians the following amounts, viz.: For admission to the Baltimore City College, per capita, twelve dollars and fifty cents per quarter: for admission to the Female High Schools, per capita, eight dollars per quarter: for admission to grammar schools, per capita, four dollars per quarter: for admission to primary schools, per capita, three dollars per quarter—the said amount to be paid invariably in advance, and to be paid by the School Commissioners to the Register of the City for account of the school fund: provided, however, that nothing herein contained shall be so construed as to prevent the free admission into said schools of the children of registered voters of the city who are employed by the city in or about Druid Hill Park or the water works there situate, and who reside beyond the city limits.

28. The Commissioners of Public Schools shall not admit any book or books into use in the public schools, or discontinue the use of the same after having been admitted, unless said admission or discontinuance be approved by a vote of a majority of the entire Board in session assembled at a regular meeting of said Board.

29. The said Commissioners of Public Schools are hereby authorized to receive all devises, bequests and donations which may be made for the benefit of said public schools, and all devises, bequests and donations received by said Commissioners, by virtue either of this section or of any Act or Acts of the General Assembly of Maryland, shall be paid over by them to the Register of the City, who shall place the same to the credit of the school fund: and if any condition or conditions be prescribed in any such devise, bequest or donation, the same shall be applied under the direction of said Commissioners, with the sanction of the Mayor and City Council, agreeably to the intention of the testator or donor: and if no condition be prescribed in any such devise, bequest or donation, it shall not be lawful for said Commissioners to draw all or any part of the amount thereof out of the city treasury during the year in which it was received, unless the collections from the resources and levy of the school fund for said year should fall short of the estimated expenditures forming the basis of said levy, or unless it shall have been already allowed in the estimated resources of the fund for said year: otherwise the same shall be included in the estimates of the ensuing year.

30. All funds which shall be paid to or received by the City Register, or in any other way, or through any other person or persons,

passed over and transferred to the Mayor and City Council of Baltimore, pursuant to the provisions of Sections 781 and 784 of Article 4 of the Code of Public Local Laws, title "City of Baltimore," sub-title "Intestates' Estates," shall be held subject to the order of the Board of Commissioners of Public Schools of the City of Baltimore, in like manner as the funds derived from taxation for said purposes are held; and such funds as may be thus received are declared to be a separate and distinct revenue, to be applied to the use and support of the public schools, in addition to the annual tax levied and the annual appropriation made for that purpose.

31. It shall be the duty of the City Register to notify and inform the Board of Commissioners of Public Schools, by a communication in writing, whenever any funds arising from the aforesaid source shall be hereafter received by him, and the amount of the same.

32. Whenever said Commissioners of Public Schools shall intend to apply any portion or all of the aforesaid funds hereafter received from intestate estates, the warrant or order drawn for said funds, or any portion thereof, shall show upon its face that it is drawn upon said funds; and it shall be the duty of the City Comptroller and the City Register to keep a separate account of all receipts and disbursements for said special and specific fund.

33. The Mayor is authorized, upon the presentation to him of satisfactory evidence of the existence of any just and valid claim on the part of the corporation, on account of the school fund, against a certain estate, and which claim it is, in his judgment, judicious to prosecute, to employ for that purpose the services of one or more agents, and to agree with such agent or agents for such compensation to him or them as he may deem fair and reasonable; provided, the said compensation shall be entirely contingent upon the recovery of the money.

34. All assessments for paving or repaving in front of any of the public schools or lots of ground attached thereto, and also all assessments of benefits for opening or widening any street or streets, so far as the public schools may be interested, shall be paid by the Register out of any unappropriated money in the treasury.

35. It shall not be lawful for said Board of Commissioners of Public Schools to exceed in their expenditures the amount annually appropriated therefor by the City Council; and it shall be their duty to apply the same exclusively to the several purposes, and as far as practicable, in the proportion specified in the statement of estimated expenses, on which said City Council shall have based the school fund levy for the year.

36. Whenever any of the pupils of Baltimore City College shall have satisfactorily completed the prescribed term and course of instruction the Commissioners of Public Schools shall have the power to confer on them testimonials in form as follows, viz.: This certificate is given to——— ———, a pupil of the Baltimore City College, in testimony that he has pursued and satisfactorily completed the studies of the ——— course of ——— years; and said testimonials shall be signed by

the President of the Board, by the Mayor of the city, with the seal of the city attached, by the Committee on the Baltimore City College, and by the Principal, Vice-principal and Professors of said College.

37. Said Commissioners of Public Schools are authorized to cause said testimonials to be engraved on copper or lithographed, with a suitable vignette, the expenses necessarily connected with the preparation of said testimonials to be paid from the school fund: provided, that no Commissioner or teacher shall ever charge or receive any fee or compensation for so signing said testimonials.

38. Said Commissioners of Public Schools shall have power to confer testimonials on pupils of the Eastern and Western Female High Schools in conformity with the requisitions and provisions of the preceding two sections.

39. Whenever any pupil shall leave any of the high schools without having completed the prescribed term and course of instruction, then, and in such cases, said Commissioners shall have power to confer such testimonials on said pupils as said Commissioners may deem to be proper and appropriate to the occasion.

40. It is hereby made the duty of the Board of Commissioners of Public Schools of the City of Baltimore to organize separate schools for colored children (this was done in 1867), and to establish as many schools for the education of colored children of Baltimore City as may, in the judgment of said Board, be necessary.

41. The schools to be established in accordance with the provisions of this ordinance shall be subject to such rules and regulations as may be prescribed by the said Board in its discretion.

43. The Board of School Commissioners are authorized and directed in all colored schools to be hereafter established, and in all colored schools in any territory hereafter annexed to Baltimore City, to appoint teachers of the colored race as instructors in such public schools set apart for colored youths; provided, that they be shown, by examination or such other test as is applied to white teachers, to possess the necessary moral and intellectual qualifications therefor.

44. It shall be the duty of the Superintendent of Public Schools to hold public examinations to which all colored applicants for teachers' positions may and shall be admitted.

45. All such applicants who pass a satisfactory examination shall be certified by the Superintendent of Public Schools to the Board of School Commissioners, and said Board of School Commissioners shall appoint the persons so certified to positions as teachers in all colored schools hereafter established and set apart for the colored race, and also in all such schools in any territory hereafter annexed to Baltimore City.

46. The schools hereafter established for colored children shall be supplied with the colored applicants so certified to the extent of the number applying before teachers of any other race shall be employed

in such schools; provided, however, that in no case shall teachers of the white race be employed in any school in which colored teachers are employed.

Ordinance No. 55, of 1895–96, approved April 10, 1896, provides, "That on and after the beginning of the regular school term in 1896 in all the colored public schools of Baltimore City, * * * where white teachers are now, or may be hereafter employed, a gradual system of elimination of such teachers be instituted.

"And that whenever a vacancy occurs in any of said white faculties a white teacher shall be appointed to fill such vacancy temporarily only, and as soon as the vacancies thus temporarily filled shall be sufficient to supply positions for a whole white faculty then teaching in any colored school, said faculty shall be distributed among the other colored schools and their places filled by a whole faculty of colored teachers."

47. The salaries paid to such colored teachers shall be equal to those now paid to white teachers for similar service in the colored schools.

48. Whenever any of the pupils of the colored schools have satisfactorily completed the term and course of instruction prescribed for the pupils of the Colored High School, the Commissioners of Public Schools shall have power to confer upon them testimonials in conformity with the requisitions and provisions of this article relating to the conferring of testimonials upon pupils of the Baltimore City College, and the Eastern and Western Female High Schools.

49. There shall be established at the Baltimore City College, and at each of the two Female High Schools, a library for their use, without charge, under such regulations as may be adopted by the Board of Commissioners of Public Schools.

50. The selection of the books, which shall be only of an instructive and moral character, shall be made by the said Commissioners, or a committee appointed by them for the purpose, and no book deemed by them to be injurious to the morals of the pupils, or of a sectarian character, whether obtained by purchase or donation, shall be admitted in said libraries; and all books purchased under any future ordinance or resolution of the City Council, or otherwise, for this purpose, shall be subject to the restrictions herein contained.

51. The Commissioners of Public Schools of the City of Baltimore are hereby authorized to accept and receive the premiums given by the Trustees of the Peabody Institute to the Baltimore City College and the Female High Schools, as specified in Mr. Peabody's letter to his trustees, and to have the same distributed from time to time in such manner as they shall deem most conducive to the benefit of the schools and the objects of the donor.

52. The Board of Commissioners of Public Schools of Baltimore City are authorized and directed to establish in the City of Baltimore, in some convenient locality, as near the centre of the city as possible, a school for manual training, under such name or title as said Board shall select; said school shall be open to the children of the citizens and *bona*

*fide* residents of the City of Baltimore, and the admission to said school shall be regulated by the law now existing for the admission of pupils to the public schools of the City of Baltimore, except in so far as changed by this ordinance; the age and qualifications for admission to said school shall be fixed and prescribed by the said School Board; provided, that the fee for the use of tools and materials for pupils who are the children of residents or citizens of Baltimore shall not exceed one dollar each per scholastic quarter; pupils from other places may be admittted to said school upon such terms and conditions and upon payment of such fees as said Board shall prescribe.

52a to 52e. An ordinance nearly identical with the above (Section 52), providing for a Manual Training School for Colored Children, was approved February 16, 1892.

57 to 60. It shall be the duty of all physicians who may be in attendance in any family whose child or children may be attending any of the public schools of this city, which family may have a case or cases of scarlet fever, diphtheria, measles, smallpox, chickenpox, whooping cough, or any other contagious disease, to give a certificate of the same to the parents or parent of the child or children so diseased as soon as the disease is developed; and it shall be the duty of the parents or parent, as soon as the physician certifies that contagious disease exists in his, her or their house, to notify the principal of the school attended by his, her or their children within twenty-four hours. That if there be no physician attending in cases of disease mentioned in this ordinance, it shall be the duty of the parents or parent to report the disease to the principal of the school attended by his, her or their child or children within twenty-four hours from the time the disease is known to be contagious. That if any parent or physician shall notify any public school teacher of the city that any contagious disease exists in any family whose child or children are attending any of the public schools of this city, then it shall be the duty of the principal of the school to exclude the child or children of said family from the school until the attending physician certifies that all danger from contagion has passed. That if any teacher or teachers reside, board or lodge in any house where a child or children in such house is suffering with any contagious disease, of which fact the said teacher has been cognizant, then it shall be the duty of said teacher to certify to the same to a member of the School Board, and such teacher shall not perform his or her duties in any public school in this city until a physician attending such case or cases of contagious disease shall certify that all danger from contagion has passed. Failure to comply with the provisions of this ordinance will subject the offender to a fine of ten dollars ($10).

61. When scarlet fever, diphtheria, measels, smallpox, chickenpox, whooping cough, or any other contagious diseases has existed in any family whose child or children have been attending any of the public schools of this city, which child or children had not been attended by any practicing physician, then it shall be the duty of any vaccine physician who may be applied to for a certificate that all danger from contagion has passed to visit the premises, if in his district, where said child or children had been sick, and if there should exist no danger from contagion he should give the certificate applied for free of charge.

62. (Approved May 22, 1893). The School Commissioners are hereby required and directed to have all public schools in the City of Baltimore opened for the reception of pupils thirty minutes before the commencement of the regular exercises of said schools.

(See also the statute relating to vaccination).

By resolution approved March 13, 1894, it is provided "That the American flag be raised on all public school buildings where the school buildings are provided with said flags at half-mast on Memorial Day."

By ordinance approved April 9, 1895, the Board was directed to purchase a sufficient number of American flags and have the same placed on each and every public school building, to be raised on every school-day from the opening of the session in the morning till the close in the afternoon, except on inclement days, and at half-mast on May 30 from sunrise to sunset; principals to be responsible for the performance of the duty, and liable to suspension or dismissal for failure to perform the same. The sum of fifteen hundred dollars ($1,500) is appropriated to defray the cost of said flags and placing them on the school buildings.

By ordinance approved May 8, 1895, the Board was directed to introduce physical training as a regular course of study in the public schools; to employ a male teacher, a graduate of some institution in which the art and science of physical training has been the only object of the course of study; salary to be fixed by the Board, subject to the approval of the Mayor and City Council. Ten minutes each day shall be given to calisthenics. The sum of one thousand five hundred dollars ($1,500) is appropriated to defray the expense.

By resolution approved May 15, 1895, the Board is directed "to issue the necessary directions to the teachers * * * to read the Declaration of Independence of the United States to the pupils of their respective classes (in the grammar schools only) on the Friday preceding all national, State or municipal holidays."

By Ordinance No. 140, approved September 21, 1896, Ordinance approved May 8, 1895 (on this subject) was repealed and in lieu thereof the Board was authorized and directed to introduce Physical Training as a regular course of study in the public schools, to purchase such apparatus as shall be necessary, and to employ the necessary teacher or teachers, the salary or salaries of said teacher or teachers to be fixed by the Board, subject to the approval of the Mayor and City Council.

By Ordinance No. 33, approved June 23, 1897, the name Colored Manual Training School was changed to Colored Polytechnic Institute.

OFFICE OF THE

# COMMISSIONERS OF PUBLIC SCHOOLS.

BALTIMORE, MD., November 23, 1897.

## CIVIL SERVICE RULES ADOPTED BY THE BOARD NOVEMBER 23, 1897.

(By Special Action.)

### I.

### TENURE OF OFFICE.

A teacher duly elected under the rules of this Board shall hold his or her position during good behavior and efficiency, and who is found to be morally and physically competent. This rule not to conflict with rules relating to the shortage of numbers, but to apply to the annual election, and to be construed only as abolishing the rules requiring annual elections.

### II.

### ELIGIBILITY IN WHITE SCHOOLS.

The graduates of Baltimore City College, and white males who pass the examination, shall be eligible to first assistant in male grammar schools, and the graduates of the two High Schools, and female graduates of the Maryland State Normal School, and those that pass the regular semi-annual examinations of this Board, shall be eligible to the lowest position—*i. e.*, assistant in the primary school, provided they receive the averages of scholarship which are now or which may be hereafter prescribed; and that no other person whatsoever shall be eligible or shall be made eligible for positions in the schools in charge of white faculties. Graduates of the Polytechnic Institute and those applicants who shall pass the regular semi-annual examination of the Board shall be eligible to the lowest position in the two Polytechnic Institutes, to be selected according to merit to be determined by their averages.

The instructors in the Mechanical Department in these two schools shall be subject to the Civil Service Rules. When vacancies occur in these positions the applicants must pass the examination as fixed by the Superintendent.

III.

ELIGIBILITY IN COLORED SCHOOLS.

The graduates of the Colored High School, and those colored applicants who shall pass the regular semi-annual examinations of the Board, shall be eligible to the lowest position—*i. e.*, assistant in a primary school, in schools wholly in charge of colored faculties, provided they obtain the average of scholarship which is now or which may be hereafter prescribed by the Board; and no other colored person whatsoever shall be eligible or be made eligible.

IV.

LIST OF REGISTERED ELIGIBLES—FEMALES.

The Superintendent shall make a list on which shall appear the names of all registered eligibles who are graduates of the Eastern Female High School, the Western Female High School, the Maryland State Normal School, and female applicants who have passed the regular examinations of the Board. The names of the persons shall be arranged in accordance with the final average scholarship of each, or the average attained at one of the semi-annual examinations, so that the one who has attained the highest average shall stand first, the next highest second, and so on to the lowest; provided that the lowest passing average (75) at the examination shall be equal in rank to 85 on the list, and consequently 76 shall be equal to 86, 77 to 87, and so on.

V.

LIST OF REGISTERED ELIGIBLES—MALES.

The Superintendent shall also make a list of the graduates of the Baltimore City College now on his list and the male applicants who passed the examination, arranged as the foregoing list, and also a list of colored eligibles arranged in the same manner.

VI.

TIME OF REGISTRATION.

Before making up said list the Superintendent shall give notice that said lists will be closed on a certain date, to be fixed by resolution, and that all persons who are eligible must apply to have their names registered upon said lists before said date; otherwise they will be debarred until a certain other date, also to be fixed by resolution, and afterwards said list to be open for entries from the first of June to the first of July of each year.

VII.

VACANCIES.

PART 1. When a vacancy occurs below first assistant in a grammar school, the line of teachers below the vacancy shall be advanced accordingly, and the last position on the line shall be vacant, which position shall be filled by the transfer of a teacher from a primary school (who has had not less than two years' experience), or from some other grammar school.

PART 2. When a vacancy occurs below principal in a primary school, the line of teachers shall be advanced accordingly, and the last position may be filled by the transfer of a teacher from another primary school, or by the highest applicant on the eligible list.

PART 3. It being understood that the line of teachers referred to in the above schools shall refer to the rank of teachers as regards promotion. The assignment of the teachers below that of second assistant to be left, as heretofore, to the principal of the school.

## VIII.

## BASIS OF ADDITIONAL UNITS.

Maturity in years in an applicant deserves consideration, and, therefore, those who remain over on July 1, 1896, on the list of the present year shall each be advanced two units above their present averages, and stand two units higher on the list for 1896 and 1897; and those who are remaining on the last-mentioned list on July 1, 1897, shall be advanced three units for the second year, and two units for those who are over for the first time; and those over for the third time on July 1, 1898, shall be advanced in their averages five units, those a second time three units, and those a first time two units; but after the third advance no further advance shall be made, but the applicants may remain on the list, each retaining the average as it appears on the list after the third advance, each applicant remaining over being entitled to three advances, as above set forth, and no more.

## IX.

## TIME OF PROBATION.

Every appointee under the above resolutions shall serve a probationary period of twelve months, and the Superintendent or Assistant Superintendent, according to the school, shall make a report in writing at the end of every ninety days, to be joined in by the principal of the school, if he agrees; if not, he or she shall make a separate report touching the fitness and efficiency of such appointee, so that every appointee shall be four times reported to this Board, as aforesaid, before he or she is elected.

## X.

## PROMOTIONS.

Promotions shall be made to a higher position from the next lower, in the same school, if the Local Committee so decide; but if they deem such a course inexpedient, then the said higher position shall be filled by a competitive examination, open only to those in the said next lower position in the other schools, after due notice. This to apply to all grammar and primary schools.

The line of promotion shall be as follows: The selection for the first or primary grade teacher shall be made from among the faculty

of each school by the Superintendent, Assistant Superintendent, and Principal, and if they cannot agree, then by the Board, whenever a vacancy occurs in said grade. From this grade the promotion shall be to the principalship of the same primary school. If this promotion is not made by the Superintendent, Assistant Superintendent and Principal, then the competitive examination, going no further than subjects taught in the grammar schools, shall be open to the assistants in each primary school, to the assistants in each grammar school, and to all the teachers of the first grade in the primary schools who have taught five years, including the one not promoted, and the one who secures the highest average shall be appointed. The promotion to first assistant in the same female grammar school shall be from the next highest in rank. If this promotion is not made by the Superintendent, Assistant Superintendent and Principal, then the competitive examination shall be open to the same persons, as above stated, for principal of a primary school, and upon the same subjects.

The promotion from first assistant in the same female grammar school shall be to principal. If the Local Committee will withhold this promotion then the competitive examination for the principalship of the female grammar schools shall be open to all the principals of primary schools, all the first assistants of female grammar schools, and to the female first assistants in male grammar schools. The female teachers in English-German schools on an equal footing with any of all the above to be respectively included in what is said above in regard to the female teachers in the other schools.

The promotion from the first assistant in the same male grammar school, if the first assistant is a male, shall be to principal. If this promotion is not made, as aforesaid, then the competitive examination shall be open to all male first assistants, and the examination shall be on the lines of the examination for principals of grammar schools under the present rules of the Board; provided, that no one shall be promoted or allowed to compete in the aforementioned examination who has not had at least five years' experience in teaching.

The colored schools presided over by white faculties (except as hereinbefore stated, the Colored High School, and the Colored Manual Training School), are included in the above.

When the position of first assistant in a male grammar school shall become vacant, the person whose name stands highest upon the list of registered male eligibles shall be selected to fill the position.

Male teachers holding positions below that of first assistant of a male grammar school shall retain their places upon the list of registered male eligibles as determined by their averages, and shall be appointed in their order to higher positions.

## XI.

## LIST OF COLORED ELIGIBLES—APPOINTMENTS AND PROMOTIONS.

For the colored graduates and those colored applicants who pass the examinations of the Board, the Superintendent shall prepare a similar

list to the ones described herein for white eligibles, and that appointments be made therefrom for the school now presided over by a colored faculty, and any that may be hereafter established under the same conditions; and that promotions be made in the same manner as above set forth, as far as the same may be possible under the circumstances.

## XII.

## COMPETITIVE EXAMINATIONS.

If it should happen, at any time, that no one appears willing to submit to an examination in any of the competitive examinations above provided for, or those who submit should, in the opinion of the Superintendent and the Committee on Examinations, be unfit for promotion, as judged by their examination papers, then another examination shall be held, upon due notice, open to the next lower grade or grades.

## XIII.

## ORGANIZATION OF NEW SCHOOLS.

When a *new school* is to be organized, selections shall be made in the following manner:

When the semi-annual examinations are held in May and November, teachers with the requisite number of years of successful service may qualify themselves for promotion to the various positions in the schools—a suitable examination being set for each position as follows:

1. Principal of a Grammar School.
2. First Assistant of a Grammar School.
3. Second Assistant of a Grammar School.
4. Third Assistant of a Grammar School.
5. Principal of a Primary School.
6. Teacher in charge of lowest Primary grade.
7. Principal of a Colored Primary School.
8. First Assistant of a Colored Primary School.
9. Vice-Principal of an English-German School.
10. First Assistant of an English-German School.
11. Teacher of German in an English-German School.

Eligible lists shall be made for these various positions, each list containing the names of those who passed the examinations for the respective positions, the names on each list being arranged in the order of merit, as ascertained by the examinations.

Then, when it becomes necessary to organize a new school, the principal and the other teachers, ranking above the position of third assistant, shall be selected from those whose names stand first upon the respective lists, the one whose name stands first, receiving the first appointment, and so on.

XIV.

POSITIONS IN BALTIMORE CITY COLLEGE AND HIGH SCHOOLS.

No one shall be appointed to a position in the Baltimore City College or High Schools who has not passed an examination embracing English composition, and the subject or subjects the applicant, if selected, would have to teach.

XV.

POSITIONS LOST BY SHRINKAGE IN ATTENDANCE.

A teacher duly elected, who loses her situation by reason of the shrinkage in the attendance of any school, shall be placed at the head of the list of eligibles, and shall be appointed to the first vacancy that occurs; and if several thus lose their situations, then the one among them who first loses her situation shall be first appointed, the one who loses next in order of time, second, and so on to the end.

XVI.

EXTENSION OF APPLICATION OF CIVIL SERVICE RULES.

The Civil Service Rules shall apply to Teachers of Music, Drawing, Physical Culture, and Sewing. Examinations to be conducted by the respective Superintendents of each department.

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## The Following Additions to Section X were Adopted at Meeting Held February 15, 1898.

1. Any male Principal elected prior to the adoption of these Civil Service Rules, below the rank of Principal of a Male Grammar School, may be transferred to the Principalship of a Male Grammar School.

2. Any male teacher elected prior to the adoption of these Civil Service Rules, below the rank of first assistant in a Male Grammar School, may be transferred to the first assistantship in a Male Grammar School.

3. White female teachers, lower in rank than the Principal of a Female Grammar School, and not below that of the first assistant in a Female Grammar School, shall be considered as of even rank with the first assistant of a Female Grammar School, and may be transferred to the position of first assistant in a Female Grammar School, and shall be eligible to promotion to the Principalship of a Female Grammar School in the same manner and subject to the same conditions as the first assistant of a Female Grammar School.

The question of the true or deserving status of an eligible who declines the offer of the vacancy was fully and freely considered by your Committee. One member held, and we think logically, that an eligible who declines the first offer should, if we desire to avail ourselves of those who have the highest scholarship marks, be allowed to accept the next or a subsequent offer; but it may be plausibly contended, *per contra*, that to allow such a privilege might have a tendency to induce the eligible to exercise that privilege in a manner prejudicial to some of the schools, especially the colored schools, therefore a so-called compromise ground has been agreed upon by your Committee, and they recommend that an eligible who declines an offer of a vacancy shall be suspended temporarily from the eligible list and allowed to resume his or her place with the attained average at the next semi-annual registration, without a re-submission for examination.

ACTION OF THE BOARD UNDER DATE OF MAY 24, 1898.

The President decided that the lowest passing average was 85, instead of 80, as heretofore, the Civil Service Committee's report of October 19, 1897, advocating this change, having been adopted by the Board.

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# REPORT

TO THE

# Mayor and City Council of Baltimore,

FROM THE COMMISSION

APPOINTED UNDER RESOLUTION No. 77,
SESSION OF 1897,

ON THE

# CARE OF CERTAIN CITY POOR.

DECEMBER, 1897.

*To the Honorable the Mayor and City Council of Baltimore City :*

The special Commission appointed under Ordinance No. 77, of 1897, to report to you a plan by which the city can care directly for the poor and for the destitute children whom it has to support, and also a method of appropriating to hospitals and dispensaries, began its work by getting information about the care of the poor and of destitute children and medical charities in other cities. It then turned its attention to conditions in Baltimore. It approached the subject with the sole view of trying to answer the questions which are raised by the ordinance, and to suggest some reasonable ways of bettering the administration of our city care for the poor, if careful study should prove that changes were needed.*

This is believed to be the first general inquiry into such mat-

*The following notice, with the ordinance, was published by the Commission in the leading papers :

COMMISSION ON CITY CHARITIES, CITY HALL.

Baltimore, September 27, 1897.

*To the Citizens of Baltimore :*

The undersigned, members of the Commission appointed under the following resolution of the Mayor and City Council of Baltimore, are now engaged in the work assigned them, and will be pleased to receive, in writing, any suggestions, within the next ten days, which may aid the Commission in devising the best plans, as required by the resolution. Address communications to the Secretary, 10 Hopkins Place.

ters made by order of the City Government. Being called on to consider methods for care of city poor, the Commission does not report details of management of institutions by name, except the answers which have been given to certain questions sent to the institutions under private control which receive city money. (See tables F, G. H.)

The Commission is not called on to go into the care of public charges who are offenders against the laws, or who belong to other special classes of dependents.

Table A shows the increase in population, the increase in the tax rate, the increase in the money appropriated for the care of the poor, and the proportion of the taxes used for the poor, in Baltimore, during the past twenty-five years. But increased expenditures for the poor in proportion to population does not necessarily mean extravagance. The past generation has seen marked advances in the care of the sick, the insane, the poor and neglected. Society is learning that this better care means real economy, in the end, to the community. All this, dictated both by wisdom and kindness, costs money, both for materials used and for intelligence to direct their use. The significant question for every citizen to ask is : Were the various items of expenditure for the poor necessary, and have all possible benefits to the poor been secured from that expenditure?

More noticeable still than the increase in the total yearly expenditure is the increase in the past twenty years of the number of institutions, wholly under private control, to which the city gives money.

## USE OF PRIVATE AGENCIES BY THE CITY.

A great deal of the money appropriated by the city for the poor has been expended through private charities or agencies. The word "appropriation" to private charities has been much misunderstood in Baltimore. Twenty-one years ago the Court of Appeals of Maryland (see Maryland Reports, Vol. XLV., page 310; cases of St. Mary's Industrial School for Boys, the Maryland Industrial School for Girls *et als.*, *vs.* George S.

Brown *et als.*), in an opinion by Judge Alvey, decided as follows:

That the city has no authority to make appropriations to sustain or aid institutions, however benevolent or charitable in character, which are not direct instruments of municipal administration, but are distinct corporations, under private control, and for the management of which there is no accountability to the city.

The fact that a fixed number of trustees or managers (being a minority of the management) of any institution are appointed by the city does not make the institution a municipal agency; it remains, nevertheless, entirely separated from and independent of the city, in all corporate action and control.

The opinion of the Court further says : "That the city has ample power delegated to it, and that it is a duty, to provide for the foundlings, the insane, the indigent infirm and helpless, and for the correction of the vicious and vagrant portion of its population, is beyond all question; but whatever provision may be made must be under the control and subject to the supervision of municipal authority."

"The authority that is held and exercised in this behalf is a trust, as well for those who become the objects of it, as those who support it by contribution in the form of taxes levied upon their property; and being an important public trust, it cannot be delegated beyond the power and discretion of those to whom it is confided."

"We do not design, however, to be understood as intimating that it would not be competent for the Mayor and City Council to contract for the care, maintenance and training of those subject to its power, or who have claims upon its charity." ******* If the city has not provided for such persons, or if they can be better taken care of and trained in private institutions rather than in city institutions, the city may contract for that care and training.

But the exercise of this power to contract, on the part of the city, in order to be valid, "must be with the limitation, that the subject-matter of the contract be kept within the power and control of municipal authority, and that complete accountability be provided for ; and thus make the institutions contracted with, *pro hac vice*, municipal agencies."

## THE ADULT POOR.

Your Commission is called on, first, to report a plan by which the city may care directly for its "indigent poor." The city has been providing for all adult poor assumed as charges on it, (not including some of the sick, insane, &c.), at the almshouse under the care of the Trustees of the Poor,* with the exception of making appropriations to two private agencies ; an appropriation of $1,000 yearly for the past four years to a permanent home for aged colored women, and an appropriation of $1,000 yearly for the past two years to a temporary shelter for homeless and destitute men. The Trustees are prepared at Bay View to care humanely for more aged colored persons than are now there. Why should any one more than another of the many worthy private charities for the aged receive city patronage? The unfairness falls most on the many most worthy poor who go to the almshouse, though they would prefer a private home! The temporary shelter for men did not receive city money until after the police station-houses were closed to the old abuse of sheltering able-bodied male lodgers.† An enlightened community should not maintain a system of "station-house lodgings," nor will it permit the chance of a man actually suffering from enforced exposure.‡ In New York City, the Department of Public Charities now maintains a municipal lodging-house, receiving $9,000 for the purpose. Boston maintains a municipal lodging-house and wood-yard for men at the net expense last year of $7,927.25, and a shelter for homeless women and children at an expense last year of $7,364.49. Our neighboring city, Washington, maintains a small municipal lodging-house for $4,000 a year. Our Trustees of the Poor are the city's officers who naturally should care for such homeless persons as cannot find shelter at night. If they have no place for them in the city, and if the almshouse is too far away to be used, or if its use for the purpose is very undesirable, the

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*There is no such legal title as Trustees of Bay View Asylum, it is Trustees of the Poor.

†In 1894, by the wise action of the Police Commissioners with the co-operation of the Citizens' Central Relief Committee and this shelter for men.

‡In the absence of more suitable provision, homeless women are now sheltered in police stations, under care of the matrons.

Trustees should be empowered to make advantageous arrangements for their temporary care, with a private agency, and to pay pro rata for services rendered. To establish and maintain a city shelter would be an unnecessary expense, provided other satisfactory arrangements can be made, at less cost. If the care is to be more than temporary, it should be at the almshouse or other suitable city institution.

**The Commission recommends that the city charter shall provide: That the city will not pay for the maintenance of any adult poor (except offenders, the sick, insane or other special classes of dependents, receiving special treatment) outside the almshouse or other city home; provided the city has accommodation at the almshouse or other city home for all such persons who may properly, under the regulations of the Trustees of the Poor, be received therein; except that the Trustees of the Poor may provide for the temporary care of homeless persons, under their supervision, at a total yearly expense not to exceed the sum which may be appropriated to their use, for that purpose, by the Mayor and City Council.***

## DESTITUTE OR NEGLECTED CHILDREN.

The Commission is asked, secondly, to report a plan whereby the city can care directly for destitute children dependent on it.

Table B shows the sums paid to children's institutions for twenty years past.

We find that the City of Baltimore for the current year (1897) appropriated $35,175 for the care of orphan, destitute or neglected children, not offenders, in twelve private institutions (not counting St. Mary's Industrial School, which, while a reformatory, has a small number of boys who were merely destitute or neglected and not offenders). Of this sum, $29,675

*Bay View Asylum might well be called the city home. Persons who are offenders should as far as possible be kept out of it. The house of correction, or a city workhouse, are the proper places for offenders, the almshouse or city home should be limited to the old or infirm or incapable.

was for white children in nine institutions, and $5,500 for colored children in three institutions. This is the only provision which the city now makes for its able-bodied destitute or neglected children, except the care which it can give at the almshouse for a short period. A State law wisely forbids the retention of children sound in body and mind, between the ages of three and sixteen years, in an almshouse ; the policy of an enlightened community should be, as far as possible, to keep all children out of institutions where they may come in contact with demoralizing influences.*

It is obvious that the amount of money now expended by our city for destitute or neglected children is not large ; that private charity is doing a great deal for children. With children whose care and support are undertaken by private charity the city has nothing to do. *The city should care for those children only who (not found to be charges on some other community), cannot be or ought not to be cared for by parents or other guardians, and who may not be cared for by private charity.*

The Commission is asked to report a plan for direct care by the city of destitute children dependent on the city. Merely destitute or neglected children, those whose misfortunes are due only to the loss of guardians or to the faults of guardians, should certainly be separated as far as is possible from delinquents, those who are themselves offenders. Juvenile reformatories may be sharply defined from other institutions for children. But to try to separate in treatment the pauper children, those merely orphan or destitute, from the neglected, those taken from unfit guardians, would be difficult and unnecessary. The same system of municipal care may be used for both destitute and neglected. Therefore, the Commission will consider together, as in one class as far as treatment is concerned, the destitute and the neglected.

*The Commission believes that when the city undertakes the maintenance of a destitute or neglected child (or of any other dependent) the city becomes responsible for its welfare, and has the duty to provide for the child the best obtainable care.*

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*This has been the leading motive in removing children from almshouses. By the same argument, so humane, so unanswerable in any reasonable way, children should be kept out of all jails and prisons.

The Commission has inquired sufficiently into the condition of child-saving work in Baltimore, with reference to the care of children by private agencies on behalf of the city, to be satisfied that more direct supervision and care than heretofore exercised on the part of the city is absolutely essential. This statement is in no way intended to imply that the intention of the managers of all our agencies for child-saving are not of the best. But good intentions do not necessarily make good agencies ; they must be supplemented by knowledge of what the best is, here and in other cities, and by money sufficient to secure the best to a reasonable extent.*

In former years, the contracts made by the city with private agencies for the care of children have been practically matters of form, to care for not over a fixed number of children for a fixed sum. Children have been received directly as the managers see fit or else by commitment by a magistrate. There has been no real supervision on the part of the city.†

The average amount of payment yearly, according to these contracts, has been $50 for each colored child and about $90 for each white child. The city has practically been paying a lump sum yearly to several of these agencies for the promotion of their work in general. To determine, therefore,

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*As examples of the use, in child-saving work, of the best methods, at no unreasonable expenditure for the object of the work, the Commission refers to the reduction in mortality of infants, largely foundlings, brought about by the State Board of Charities of Massachusetts in its direct care of State children through "boarding out" chiefly, and by St. Vincent's Orphan Asylum in Philadelphia, a private institution under Roman Catholic Sisters, through the use of wet-nurses and boarding out. The percentage of deaths under the Massachusetts State Board, was reduced in one year from 97% to 50%, the next year to 30%, and has since remained from 14% to 20%. Under St. Vincent's management, the death rate was reduced within two years from nearly 100% to 32%. $10 a month is paid for infants boarded out. See Massachusetts care of Dependent and Delinquent Children, published in 1893. St. Vincent's Asylum was visited by the Chairman of the Commission. The children are all or nearly all white. See experience of Board of Guardians, in Washington, with colored children, page 14.

†A statement of good services rendered, which may be made by a private institution to committees of the Council, or to the comptroller's office, may be of no more value to the city as showing the real character of those services and their value as compared with the best standards, than are usually the formal visits of grand juries to public institutions. The city comptroller's office audits accounts against the city, but it is not the proper department to examine into the care given to dependents.

the exact number of children dependent on the city is practically impossible. If private agencies are to be used by the city, and if they shall be found to be doing, as they have often claimed they are doing, more work for the city than they are being paid for, surely the city should not refuse to pay them adequately, in order that the best available care may be given the dependents. If the city does otherwise, it must share with the agency the blame of not giving adequate care to dependents. But the measure of the quality of the work done for the city, and the selection of the dependents for whom it is done, must be entirely in the hands of city officials, and of those city officials who should be most qualified to be judges of the care of dependents.

*The Commission, therefore, is led to the conclusions:*

(*1*) *That the city, through its own agents, should decide which children are proper charges on its treasury and how long they should remain charges.**

(*2*) *That appropriations made by the city for the care of destitute or neglected children (as for any dependents) should be made in lump sums to the Trustees of the Poor, to be expended by the Trustees for that purpose, in the exercise of their judgment, under the requirements of the law.*

(*3*) *That, in so far as private agencies may be used by the city for children (as for any dependents), such agencies only should be used as shall prove their ability to give to the children the care which shall be judged by the Trustees, in the exercise of their judgment, to be the best obtainable care.*

What, next, is the best system of care which the City of Baltimore can use for the destitute and neglected children dependent on it? The Commission is agreed that it will not be the establishment of one large city home, in which all, or most of, the children dependent on the city should be kept. Entirely aside from the large cost of providing suitable buildings (for proper separation and classification would be necessary in the care of a large number of children, of whites and blacks, of

*At present, the institutions to which city money is given, receive children directly as the managers see fit, or else by commitment of a magistrate, who is a state officer. Such commitment does not, in the opinion of the commission, compel the institution to receive a child or the city to maintain a child.

both sexes and of different ages), the principle of massing together many children is a step backward, and is opposed by the best experts in child-saving work.

*Plainly the object which a community should have in caring for its dependent children is not merely to maintain them humanely, but to fit them to fill, as soon as possible, normal and useful places in the community.* There is no one method of doing this for all children. Many children of peculiar disposition or habits are suited only to be placed under the protection and restraint of an institution, for a time, at least ; and children who are suffering only from the inability of relatives to support them, for the time being, should be placed in institutions or otherwise cared for only so long as that inability lasts. For some, the training of a small institution, where industries are taught, may be best. The value of any good system is in reasonable elasticity.

The consensus of opinion, however, of leading experts in child-saving work appears to be that, for many dependent children, who seem to be of normal dispositions and habits, the best system of care, (in so far as good homes are available) is that of family life, of placing children in carefully selected homes, chiefly in the country or suburban districts, either at board or in a free home, according to the age and circumstances of each child ; *provided*, the homes are selected with great care, and the inspection of the children and of the homes be frequent and intelligent. The safeguards of this careful supervision are necessary to avoid the evils which sometimes marked the old custom of "indenture." With this careful supervision, however, the "placing-out" system has accomplished much by reducing the death rate of little children and by giving older children the benefits of family life — and usually quicker and surer preparation for normal duties and responsibilities than can be gotten in most institutions where children are kept together in any considerable numbers. (See note, page 7.) The average price of board where children are boarded out may be given as $2 a week. In so far as free homes may be secured, this system will also prove very economical. The entire cost of "placing out" in free homes and of frequent supervision by a skilled agent is reported from different cities as ranging from one-fifth to one-third of the cost of maintenance in an institu-

tion. More "placing out," therefore, of children who are suited for it means either a saving to the city, or else that more children who need care in institutions may be placed in institutions—more neglected children cared for, with no more expense to the city.

The "placing out" of children who are evidently not abnormal in disposition or habits, in carefully selected private homes, is based on the idea that the usual destitute or neglected child is like other children save in the lack of a home where the usual proper care is given, and that the most humane and advantageous care which can be given such a homeless child is to place him or her as quickly as possible in a family, to grow up as other children grow, with the least possibility of being marked as a dependent. Of public and private agencies for the care of children, which place as many dependent children as possible in selected families, some maintain institutions for the reception of children, for the return of children from homes, and for the retention of those who should not or who cannot properly be placed out; others board such children, under their control and supervision, in selected private institutions or families.*

*The power to hold dependent children under commitment is absolutely essential to any agency, public or private, which is responsible for the welfare of dependent children; and children should not be discharged from custody until the object of their commitment is accomplished.*†

The establishment of a city home for children ought to be unnecessary in Baltimore. To duplicate institutions unnecessarily is unwise. There are a number of institutions for children which have been built up by private charity, with the en-

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*Some leading experts maintain that, except in the case of children who are markedly peculiar, the fairest and best way of finding out what a child's nature and capabilities really are is to board him with some person who has shown intelligence and kindness in the care of children. A child placed in a private family to-day, may be found next year to need the restraint and discipline of an institution, another child may need institutional life at first and may afterward be developed quicker and better by family life.

†A child who becomes dependent from destitution merely must sometimes be held against the claims of relatives who come forward to claim him or her for improper uses, just as soon as an useful age is reached.

couragement of city patronage, which might be used by the Trustees of the Poor to the advantage both of the institutions and of the city, for the city charges who, in the judgment of the Trustees, need the care of an institution, or for whom no good homes are available. If suitable private institutions, however, refuse to board and care for children for the city, then the Trustees would have to make other suitable provision.

*The Commission believes that all the destitute or neglected children whom the city has to support should be in the custody of city officials, who are responsible to, and report to, the whole community, through the city government.**

By this system, the Trustees of the Poor will deal directly with the dependent individuals, and not merely with private institutions. If any questions arise as to a child's welfare in an institution or in a private family, the Trustees can act promptly in the exercise of their judgment, responsible to the power of the Mayor to remove them, if proven negligent to the trust placed in them. Again, a system of direct care, by which the dependents are placed in the custody of public officials, instead of being committed directly to private institutions, often to those of their own choice, tends to increase the efforts which persons should make, as far as is possible, to maintain their relatives, and so tends to lessen the number of dependents.

The Commission believes that such direct care by a community of its dependents, adult poor or destitute children or the sick, is in the line of the best modern thought.

*The Commission believes, also, that when a child is placed by the Trustees of the Poor in any institution, the care, training and instruction of the child should be left entirely to the institution, subject only to the supervision of the Trustees, and to their power of removal in case, in the exercise of their judgment, they should be able to provide better care and training for the child. The Commission believes that no practical difficulties will arise between the city's agents and any good institution.*

For the purpose of comparison, a brief review of the methods pursued in the leading Eastern cities is given.

The City of Boston does not use private institutions for chil-

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*One of the Commission, Mr. Hisky, dissents from this proposition. See page 29.

dren who are its charges. It maintains a juvenile reformatory, a parental school for truants and a city home. Children are held in the legal custody of the City Trustees for Children. Although very necessary and great improvements have recently been made in the city home, and, though the city is growing, the number of children kept in the home has decreased considerably, owing to the growth of the "placing-out" system. On the 31st day of January last, there were 322 in the home, while 40 were being cared for by friends, 181 were placed out at rates of board not exceeding $2 a week, and 447 were placed out in private families, at practically no cost to the city except the expenses of regular visitation. Those boarded are visited by a skilled visitor once a month; those in free homes are visited three times a year. The total cost to the city last year of destitute and neglected children was some $52,000 for the city home, counting repairs, but not counting interest on the land, building and equipment, valued at $150,000; and some $37,000 for the children boarded or placed out, counting all expenses, save some clothing. The new Board of Trustees looks to securing still better results.

The superintendent of the Boston Home and the agent of the children's department (who has developed the "placing-out" work, in his eighteen years of service) both speak most highly of the good results, in both the care and the development of the children, of the "placing-out" system.* The entire control of the children who are charges on the City of Boston is now vested in an unpaid board of seven Trustees for Children, of whom three are women.

In the City of New York conditions as to the care of dependent children are now changing. It was formerly left mostly in the hands of magistrates and private institutions without adequate city supervision, with the result that the number of dependent children and the expenses to the city were large.

In the year 1896 about 1,000 children were in the custody of the Department of Public Charities and were cared for by them in institutions belonging to the city.

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*Second Annual Report of Institutions Commissioner of Boston, 1897.

In addition the number of children cared for in private institutions at city expense was given as about 14,000.*

Under the new charter of New York City, the children in the custody of the Department of Public Charities may be placed as the Department thinks best; provided, however, that a child must be placed where it may receive instruction in the form of religious belief held by its parents. The other children are committed to private institutions by courts or magistrates, but before payment is made for them by the city, the institutions must have a certificate from the Commissioner of Public Charities to the effect that the child has been accepted as a public charge.†

In New York, beside the powers now vested in the city touching children who are city charges, there stands the State Board of Charities, with its strong powers of supervision over all dependent children.

Philadelphia pays for the care of no destitute or neglected children except through its Department of Charities, and the children are held in the legal custody of the Department. A score of children are usually being kept for short periods (not over three months, if able-bodied) in a children's home near by and attached to the almshouse. Last year the Department's agent had 398 children boarded by the city, 152 at the Training School for Feeble-Minded, 167 in various homes, Catholic or Protestant, and 79 in selected private families under the Children's Aid Society, and 43 children were placed out in free homes. The agent is responsible for all the children and himself visits them as often as is deemed necessary. The total expense to the City of Philadelphia, last year, for children merely destitute or neglected, outside of the temporary home at the almshouse, and not counting the feeble-minded, was

*The total cost in 1894 is stated to have been about $1,900,000, of which about $200,000 was for the support of children in the institutions belonging to the city.

†One result of a system, already begun by the department of examination by skilled agents, of the claims to public aid for the support of dependent childen, has been a remarkable saving to the city. Another result has been that destitute or neglected children are being brought more to the Department of Charities, rather than into the magistrates' courts. The Department plans to ascertain, by re-examination several times yearly, if children who are charges on the public may not be turned over to relatives for support or must continue to be charges.

$15,131.94, of which $1,511.70 was for salary and traveling expenses of the agent, and the rest was for board of children.*

Our neighboring City of Washington—the District of Columbia—established, four years ago, a Board of Children's Guardians. It claims that its work has been seriously hampered, however, by a partial continuance of the old custom of appropriations to private institutions by the District, without any control by the District over the admission and retention of children. In the past fifteen years the annual amount expended by the District for dependent children has increased about 480 percentum. The Board of Guardians (from its experiences with the care, in the past four years, of over 550 children, from tiny foundlings to girls of sixteen years) publishes the belief that, with exclusive control of children who are charges on the District, it could save the District over $10,000 a year, with better results in the training of children.† It has already shown that the system of placing out small children, even colored foundlings, can reduce their death rate remarkably in comparison with the death rate in the old-fashioned foundling asylums, and that the yearly cost of "placing out" and supervision of those older children who are suitable for placing out in free homes, is less than a fifth of the yearly cost of their maintenance in institutions of the District.‡

For a reasonable system of direct care by the city, with the use by the city, so far as good institutions may be available, of private institutions which shall offer advantageous care for city charges needing institution care, the Commission recommends that legislation be secured by the city from the General Assembly, as follows :

(*1*) *To allow destitute or neglected children in the City of Baltimore to be committed to the Trustees of the Poor of*

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*Annual Report of the President of the Department of Charities and Correction, for year ending Dec. 31, 1896.

†The public appropriations for maintenance of private institutions for children in the District of Columbia for 1896 were $45,600. The appropriation to the Board of Guardians was $20,000. See Report of Board and hearings of Congressional Committee.

‡See hearings before the Joint Select Committee of Congress, 1897, to investigate charities and reformatory institutions in the District Columbia. Pages 68-101, 131-156 Additional information of interest in the results of public control of public money expended for de-

*the city* (*without, however, interfering with the existing authority to commit such children to any incorporated institution for the custody of minors*); by amending the Code of Public General Laws, Art. 42, sec. 18, by adding after the words "powers of such institution" the words "and in the City of Baltimore such minor may be committed as aforesaid to the Trustees of the Poor of the City of Baltimore," and by amending the Code of Public Local Laws, Art. 4, sec. 896, by inserting after the words "charitable or other institute" the words "or to the Trustees of the Poor of the City of Baltimore;" or by provision in any new charter of the city.

(2) That the city charter shall provide:

*A.* **That the city shall pay for the maintenance of such destitute or neglected children only as shall be committed to the Trustees of the Poor, and shall be duly accepted by the Trustees as charges on the city.**

*B.* **That it shall be the duty of the Trustees of the Poor to place all such destitute or neglected children as shall be so committed to and accepted by them (except unteachable idiots or children otherwise unfitted for usual education or training) in some educational institution or home for children, or in some respectable family in the State of Maryland or an adjacent State, either with or without payment of board, and to have the children visited, and their circumstances carefully examined, not less than once in every six months, by one of the Trustees or by a skilled agent or agents appointed by them for the purpose. The care and training of any child placed by the said Trustees in any institution shall be left to the institution, subject only to the supervision of the Trustees, and to their power of removal, in their discretion, should they, in the exercise of**

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pendent children is found in the reports of the Massachusetts State Board of Charities; of the Rhode Island State School; of the State School Systems of Michigan, Minnesota, Wisconsin and Kansas; of the Board of Children's Guardians of Marion County (Indianapolis) Ind.; of the County Systems in Ohio and Indiana.

**their judgment, deem other care more advantageous for the child.**

*C.* **That the Trustees, as far as is practicable, and except for strictly temporary care, shall select institutions or homes for all children according to the form of religious faith which may be known to be that of their parents; and to ascertain this knowledge the Trustees shall make reasonable research.***

The cost to the city of this system, as of any, will be regulated entirely by the amounts appropriated yearly to the department, viz: the Trustees of the Poor, by the Mayor and City Council, for the purpose.

Child-saving work is of vital importance to every community. The Trustees of the Poor, if charged by the city with seeing that every cent of the city's appropriations for destitute and neglected children does all possible good, will be of great service—first to the children, and, secondly, to every agency engaged in saving children. No better illustration of this is needed than the statement by the President of the Society for the Protection of Children that he found two of our institutions for colored children to be in unsatisfactory conditions. Yet no less than 45 children had to be turned over by that Society, during the preceding year, to those two homes.† One of the homes has been receiving money from the city for five years, and received nearly twice as much last year as the year before. The city is called on not to spend less money for the care of dependent children, but to spend what it can afford with all possible good results. Especially pressing is the need of providing good care for more colored children.‡

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*Thus children will be placed where they may receive the religious instruction desired by those properly interested therein, except in very rare cases, if any occur, of some unusual form of religious worship.

†See the eighteenth annual report of the Society, issued in April, 1897, pages 8, 9, 10.

‡For the recommendations of the Commission on the number of the Trustees of the Poor, see page 27.

The Commission recommends that the appropriation for destitute or neglected children, under the first year of the proposed system, should be the same in amount as the appropriations made to all the private institutions for such children under the present arrangement.

## HOSPITALS.

This Commission is asked to report also, specifically, a method for the city to follow in its use of private hospitals and dispensaries for the sick poor. It is not asked to report whatever system it deems best for city care of the sick poor.

Baltimore has never maintained any hospital except the hospital department of the almshouse at Bay View, and the Quarantine and Pest Hospital, situated some dozen miles down the Patapsco. For a number of years it appropriated small sums for the care of city patients at two hospitals, those attached to the University of Maryland Medical School and to the College of Physicians and Surgeons. Only eleven years ago began the marked increase in the number of private hospitals to which city patients might be sent, and in the number of patients allowed. (See table C and note appended.) The rate of payment has always been $3.25 a week for each patient. The ordinance for 1897 designates nine as entitled to receive payment from the city for patients duly admitted, up to a fixed maximum, at any one time, for each hospital.* The total of the maximum numbers daily is 375. If the maximum numbers were paid for daily in all the hospitals, the sum expended by the city for the year would be $63,375.

The ordinances formerly provided that persons must be admitted as city patients by the Trustees of the Poor or a magistrate sitting at one of the police stations, and that the persons so admitted should be those who were "not in a condition to be sent to Bay View Asylum." In practice, however, the majority of patients were received directly by the hospitals, and admits for them were afterwards secured from the magistrate sitting nearest the hospital as a matter of form. Magistrates are state, not city officers. The ordinances also place the duty of supervision of city patients in the hands of the Trustees of the Poor; together with the power of removal to Bay View or of discharge as city patients, conditioned on consultation with the resident physicians. The results, however, of this division of the power of admission between a number of persons, wholly independent, not reporting to anyone, and following no system, and of con-

*Construed by the law officers of the city to mean daily.

tinued lack of exercise of adequate supervision, were that some residents of the counties and of other States, and occasional residents who could pay for treatment, besides a number of persons for whom Bay View was the proper place (notably men suffering from the results of dissipation, and non-residents of the tramp genus,) got into beds at the hospitals at city expense—beds which were intended for the use of emergency cases and for respectable poor sick persons. In 1896 the Board of Trustees of the Poor organized a system for supervising the city patients, and in 1897 the Mayor and City Council, by ordinance, vested the power of admission of city patients entirely in the hands of the Trustees, thus concentrating responsibility for both admission and supervision in one body, the city's own agents. This Commission has examined the system introduced by the Trustees and commends it. By it emergency cases are received directly by the hospitals without a moment's delay, the hospitals apply at once for admits for them, and admits are issued at once by the Trustees, if the patients are found to be charges on the city. For all other cases admits are first secured from the office of the Trustees. The two clerks of the Trustees—a man to deal with men, and a woman to deal with women—are frequently at the hospitals, and decide, after consultation with the resident physicians,how long patients may be kept. Such a system of concentration of responsibility in one body and of inspection by its skilled agents is an absolute necessity. Previously, the hospitals had, as a rule, the maximum number of patients allowed, and received, as a rule, the largest possible sums from the city under the ordinance. By the new system the city was saved, during the six months from January 1 to July 1 last, the sum of $4,095.94. Since then, with the power of admission of city patients entirely in the hands of the Trustees, the savings are greater still. The saving for the year 1897 will probably be about $10,000. No case of injustice to any sick poor has been brought to the attention of the Commission.

The number and choice of hospitals to which city patients may be sent is now decided each year by the Mayor and City Council, usually on recommendation of the Ways and Means Committee. The tendency has been all in the way of including more hospitals. An increase in the number of city patients

allowed should follow, of course, the increase in the population of the city—unless the establishment or enlargement of good private hospitals with free wards should allow the city to profit by the charity of its citizens.* But in neither the increase in the number of hospitals designated, nor in that of the number of city patients allowed each, does any system seem to have been followed. A careful observer is forced to the conclusion that the present choice of certain hospitals and allotment of beds therein is the result largely of the need of clinical materials for medical schools ; that in the information brought to the Council Committees the interests of the sick poor have not always been sufficiently considered.

The Commission has found the very serious fact that greater care in the selection of hospitals to which the poor of the city who become city patients may be sent is absolutely essential. The rate of payment fixed by ordinance is the same for all; but the subject is one far beyond any matter of dollars and cents. The City of Baltimore should not send one of its poor citizens to any but the best available hospitals. It contains several good ones, in buildings erected for the purpose, with all reasonable facilities for proper care of the sick.

While it is desirable that the hospitals used by the city should be reasonably scattered over the city, that consideration is of little account as compared to excellence of treatment and care. To carry sick or injured persons some blocks further in an ambulance is much better and kinder than to place them more quickly where they will get inferior treatment and care.†

*The Commission recommends that the city government adopt the following regulations for the choice of hospitals and the number of city patients.* In the month of December, 1898, and during each December thereafter, the Trustees of the Poor shall visit and inspect each of the hospitals which cared for city

*For instance, at the Johns Hopkins Hospital, opened in 1889, three-fourths of all the patients, the superintendent reports, have been poor residents of Baltimore. Up to December 1st, 1897, of a total of 509,847 days of treatment, 90,267 days were pay patients, 86,992 days were non-resident patients in indigent circumstances who could not be admitted free, under the Hospital rules, and paid part of the ward price, and 332,558 days were free patients.

†Three of the hospitals now send out ambulances. The commission feels that all used by the city should do so, and that the ambulances should be attended by persons competent to give first aid to the injured.

patients during the current year, and also such others as, on or before the 30th of November preceding, have applied in writing to the Trustees for the care of city patients during the following year. And from such hospitals the Trustees shall designate six hospitals for general treatment, which shall be found, in their judgment, best fitted to care properly for the sick; and the Trustees shall, before the first of January following, certify to the Mayor the hospitals which have been chosen, to which city patients may be admitted by the Trustees during the year following, and also the maximum number of city patients to be allowed in each hospital on any one day, which number shall be fixed by the Trustees according to the number of beds in each hospital, and the apparent needs of the sick poor ; provided, that one hospital shall give homeoepathic treatment, and that no two of the other hospitals chosen shall be in the same immediate neighborhood; and provided that the Trustees may, in case of need, in their discretion, increase the daily maximum number of city patients during any one month; but the number of patients paid for during any one month shall not exceed the sum of the maximum daily number as certified for the hospital, for every day during the month.

The Trustees of the Poor, or any agent designated by them, may, by order in writing, admit any indigent sick or disabled person in the City of Baltimore (who should not, in their discretion, be sent to the hospital department at Bay View) as a city patient, to any one of the hospitals duly certified to receive city patients.

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Figures taken from the statistical reports in the appendix indicate that the establishment of a general hospital by the city in the future, may be desirable from an economic standpoint, especially when it is remembered that the Trustees of the Poor must, and do, care directly for several hundred sick persons at Bayview Asylum. The annual city appropriations for the care of sick in hospitals prior to and including 1884, varied from $9,000 to $13,500, and the number of beds to be paid for varied from 50 to 80. In 1897, the appropriations were $63,375, and the maximum number of beds to be paid for, if used, was 375, an increase of nearly 500% in less than fifteen years. The nine hospitals receiving city money cost $1,063,966.66 ; their expenses last year were $158,051.24; state appropriations were $25,500; and the amount received from the city was $58,873.12, showing that more than one-half the expenses were paid by public appropriations, and about 37% by the city. Total number of patients in these hospitals last year was 8,647, of whom more than 5,000 were city patients, 700 State patients, and about 700 absolutely free. A further increase of appropriations in ensuing years may soon make the establishment of a city hospital a matter of economy to the taxpayers.

## DISPENSARIES.

Turning to dispensaries, we find that a dozen years ago the city expended yearly less than $6,000 for the care of sick poor by nine dispensaries. Five years ago it expended $11,950, divided among fifteen. This year it expends $17,600, divided among eighteen. (See table D.) All of these are private institutions. Of their workings and the results accomplished the city practically has known nothing—except such reports, usually petitions for increased appropriations from the city, as they have seen fit to present the Ways and Means Committees, and except very brief statistical reports submitted to the Comptroller, for the first time under Mayor Hooper.*

Five of the eighteen dispensaries are for special treatment.† Of the thirteen general dispensaries which treat both sexes and white and colored, seven are connected with medical schools. On locating these general dispensaries on a map of the city (see map), we notice at once the following conditions: A circle drawn within a radius of slightly over one mile from the City Hall includes ten out of the thirteen. These ten receive $11,800 of the entire $14,600 appropriated to general dispensaries. In East Baltimore are four dispensaries near together, and all within a comparatively short distance of the great Johns Hopkins Hospital Dispensary. Again, about a mile to the west of the City Hall lie three, very near together. Toward the centre of the city, dispensaries abound under city patronage, while the sick poor who live in Homestead, Waverly, Woodberry, Hampden, Clifton, Walbrook, Calverton, Carroll, and the region southwest of it, have to go long distances for—or go without—the needed medicine.‡ Nor have the interests of the taxpayers

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*The comptroller's office shows that before 1897 payments to dispensaries were usually made in lump sums before the fiscal year was half over, although the contracts made with them were for the year.

†2 Dental, 1 Eye and Ear, 1 for Women and Girls, with female physicians, and 1 under physicians of the colored race, which (though it advertises to treat whites) is practically for colored people.

‡St. Agnes Hospital, just across the southwestern boundary of the city, has a free dispensary; and St. Joseph's Hospital, in the northeastern section of the city, has just opened one. Neither receive city money. The Homœopathic Hospital Dispensary, receiving an appropriation, is on north Mount street.

been sufficiently considered. For example, on one street within about six blocks are three dispensaries. Two of them receive city money, while the third, which is a very large one, maintained without any money from the city or State, treats free the poor who state they cannot pay a small fee. Why should not the city, the taxpayers, and the poor avail themselves of the establishment of private charities? Again, there is a total lack of proportion between the facilities offered and the work done by some dispensaries and the sums they receive from the city, as compared with others; and also between the work done and the appropriations received by several of them this year, as compared with their own work and the sums they themselves received several years ago.

For any reasonable system in the use of private dispensaries by the city, for the sick poor who are proper charges on it, the first requisite is that the city be districted, so as to promote the desirable end of bringing dispensary treatment within comparative reach of any poor citizen. The next requisite, in order to prevent an unnecessary growth of dispensaries under city patronage, is to limit the number of dispensaries which the city will use in each district. More important still is the rule that the city, following the principle of securing for the sick poor only the best service which is available, will not use any dispensary which does not measure up to certain reasonable requirements. And then an equitable method should be fixed by which the city shall pay for services rendered to city patients.

In no case should the city pay more for the use of private dispensaries than it would pay for another equally good system.*

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*The dispensary system of Philadelphia is interesting. That city is divided into 25 dispensary districts. In each district two doctors are appointed, one of the old school and one of the homœopathic school, and to those doctors any person in the district without means to pay for medical treatment may apply for it. The doctors usually visit in the homes of the patients, but patients may call on them during their office hours. Each doctor is paid $240 a year. The drugs are provided as follows: The drug stores bid yearly for the privilege of providing and compounding drugs, the cost of the drugs being fixed for all by prices quoted from a well known druggist of the city, and the privilege in each district being given to the store which offers to compound the prescriptions for the lowest percentage on the cost of the drugs. The total cost to the city of Philadelphia of this district dispensary system this year is $12,000 for doctors' fees, and not over $6,000 for drugs

The average cost of the drugs used in dispensing prescriptions, plus the proportionate cost of compounding, is surprisingly small. The average number of visits made by, and of perscriptions compounded for, each person is also surprisingly small. Then the dispensaries offer opportunities to young physicians—opportunities which, if open to competition, even with the small salaries attached, would be sought after eagerly. The great Boston Dispensary, for instance, (a well-known private agency, which covers all the older and poorer portions of Boston in a dozen districts) secures physicians for visiting the very poor in the districts, for only $200 to each, yearly, and has a long waiting list, of leading graduates of the best schools. The medical schools everywhere, with their specialists are glad to treat free all cases sent to them of unusual gravity or interest.

As to the medical services rendered the poor, in both public and private institutions, the public should consider with all appreciation of good done to the poor, that hospitals and dispensaries, especially those connected with medical schools, are, from the medical standpoint, largely business enterprises. Medical schools do not run them from motives of philanthropy alone, but chiefly because they are necessary in the development of the schools. If the city pays them for its patients more than the cost of materials used, they may well provide medical service.

Who, then, may fairly be called city patients? The reports of dispensaries of Baltimore indicate that last year over 80,000 applications for free dispensary treatment were

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and compounding them. The actual cost of drugs and services in compounding them last year, was $5,974.40. But experience there shows that the calls for homœopathic treatment are only about one-fifth of all cases treated, and that a smaller number of homœopathic physicians would do. The system, details and all, is arranged by and is under the control of the city's own agent, the Department of Charities. Philadelphia has a system and pays no more for it than Baltimore, a city of half the size, pays for no system at all. See Report of Department of Charities of City of Philadelphia, 1896. Opinions as to the vaiue of the medical services vary somewhat, as the value of the individual doctors vary—and are sure to vary, under any system..

granted.* The province of the city is plainly that of caring only for the otherwise uncared-for, who apply for aid from absolute necessity. Those who apply at dispensaries may be divided in general into three classes—the first, those who could afford to pay a physician for treatment and a druggist for drugs ; the second, those who (without privation) can afford to pay only an amount much smaller, but sufficient to pay for drugs, or to cover to a dispensary the cost of drugs and part of the actual cost of medical service ; and, the third, those who cannot pay anything at all, without privation. The Commission has inquired sufficiently into the working of the dispensaries of Baltimore which receive city money to be satisfied that they aim to keep away those of the first class, and that the number of those applicants is not large; but that the number of those of the second class is large (probably over one-half of all), and that no real systematic efforts are being made to help those persons to help themselves. Whatever private agencies may wish to do, the city surely should not be paying for that which persons, if required to pay, could and would pay for.†

There is every reason to believe that the very poor who

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*This is not counting patients in institutions, or the considerable number, estimated at 20,000, which paid small fees (sufficient to cover more than the average cost of drugs) at the Johns Hopkins Hospital Dispensary, the Evening Dispensary for working women and girls, and the Presbyterian Eye, Ear and Throat Dispensary. It does include some persons, impossible to count from the reports, who were treated for one disease and later in the year were treated for another or other diseases.

†The Boston Dispensary, a private agency, with twelve districts covering the old portions of the city, treated free until 1880 those applicants who stated their inability to pay a physician for treatment. Since then each applicant (not found to be able to pay a physician) is asked to pay a small sum which covers the cost of drugs, the proportionate cost of compounding and a considerable proportion of the cost to the dispensary of its medical staff. On the average, yearly, about 90 per cent. pay, and 10 per cent. state their inability to pay and are treated free. Most of the patients pay 5 cents for bottles, also. A considerable proportion of those treated in their homes as surgical cases pay wholly or partly for dressings. In 1896, over 42,000 new patients were treated, and the small sums received from them, together, paid over two-thirds of the total cost of the Dispensary, including the cost of supervision of a physician of experience.

The Johns Hopkins Hospital Dispensary finds that about 90 per cent. of the patients (who state they cannot pay a physician) can pay a sum as large as that charged by the Boston Dispensary.

cannot get special treatment at a general dispensary, can get it free at one of the private dispensaries for special treatment, maintained by medical schools or by private charity. The dental dispensaries, for instance (which are attached to dental schools), urge the needy to go to them.

There is no limitation as to which of the chosen district dispensaries the sick poor shall go to, though the limitation would make easier a satisfactory use by the city of private agencies for dispensary treatment.

*The Commission recommends that the city adopt the following regulations for the use of private dispensaries by the city:*

That the city be laid off into dispensary districts (see map). That in the month of December, 1898, and during each December thereafter, the Trustees of the Poor shall visit and inspect those of the dispensaries for general treatment (which treat persons of both sexes, and both white and colored), which cared for city patients during the then current year, or which on or before the 30th of November preceding have applied in writing to the Trustees for the treatment of city patients for the year following; and from such dispensaries, they shall choose the one in each district which shall be found best fitted to treat the sick. If two or more offer equal facilities, then the oldest in existence in the district shall be chosen. And before the 1st of January following, the Trustees shall certify to the Mayor the dispensary which has been designated for each district, for the treatment of city patients for the year following. Provided that for any district where there is no dispensary to whose facilities for treating the sick poor the Trustees can certify, dispensary service for city patients shall be provided by the Trustees by the employment for certain duties of physicians and drug clerks and the provision of drugs as drugs are now provided the almshouse dispensary, or in such other way as shall secure the most satisfactory service.

Payment to any private dispensary, duly certified for the year for treatment of city patients, shall be at the rate of twenty cents each for one-half the total number of separate patients treated; but a sum not exceeding $400 may be added, to aid in cost of maintenance, if the dispensary is not connected with a hospital or medical school. Provided that the payments made in all the districts during any year, for dispensary treat-

ment, district physicians to the poor, or drugs compounded for city patients, shall not exceed the sum which may be appropriated to the Trustees of the Poor by the Mayor and City Council for the purpose of dispensary service.

The certified dispensaries shall keep a reasonable record of each case, showing by answers to specific questions the inability of the patient to pay anything for treatment and for drugs, and showing the treatment given; and they shall report to the Trustees monthly, on forms furnished by the Trustees; and their records and drugs shall be subject at any time to inspection by the Trustees or any agent duly appointed by them.*

It is the idea of the Commission, in recommending this method of selection of hospitals and dispensaries for city use, that the Trustees of the Poor will consult with physicians of our city and experts in hospitals, as to the reasonable requirements for hospitals and dispensaries.†

Such, in so far as private agencies are to be used, is the method suggested by the Commission for the city to adopt in its use of them for care of the sick poor. It is based on the principle that the first consideration of the city should be to secure for the sick poor who become its charges, the best medical treatment which is obtainable, through a limited number of hospitals and dispensaries for general treatment only. The Commission believes that any other course will result inevitably in the city becoming the promoter of various private enterprises, and so will lead to wastefulness and unfairness. The Commission has received requests for approval of city aid to several new agencies. If the plea of good work done for the

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*In the opinion of the Commission, the cost to the city of dispensary treatment would be under the proposed system reduced about one-half, allowing a reasonable amount for service in the out-lying districts.

†There are important questions to be considered by those interested in the poor, as, for instance, the need of more medical attention for the destitute sick in their homes, in order to prevent increased illness by exposure to the weather (and the poorest often are improperly clothed) or possible spread of contagious diseases among the crowd in the usual dispensary waiting-room; and the need of some evening hours at dispensaries for the treatment of struggling wage-earners, who may be prevented from becoming seriously ill by proper care in time.

community be made a basis for city aid, where, with any pretense to fairness, can a limit be fixed!

The plans which your Commission recommends place much responsibility on the Trustees of the Poor. Responsibility must be given some officers of the city, if duty is to be done; and the best way of securing the performance of duty is to concentrate power and responsibility in a comparatively small body, which reports its work in full to the Mayor and City Council, and on which the search-light of public opinion can readily be thrown.*

If objection be made to vesting so much responsibility in an unpaid board rather than in one paid official, a head of a department, the answer is ready, that the care of the dependent is a duty wholly different from the duties of the usual city department. One person, for instance, is more likely than several persons are, to be influenced by political motives or personal peculiarities which might injure the work. The Trustees of the Poor should have means to employ a very efficient, intelligent agent, properly paid, for the new duties placed on them. But the city, by its money, can seldom secure the intelligence and devotion for the supervision of its sick and dependent which it can get freely given, if its executive will but pick out from its citizens a few men and women who are most fitted for that lofty service.

**The Commission, in conclusion, recommends that the Board of Trustees of the Poor be increased to nine in number, of whom three shall always be women; and the duration of whose terms of office shall be so fixed as to provide for a gradual change in the membership of the Board.†**

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*To the Trustees has already been turned over the administration of the fund for transportation of poor to their homes, with the result that the expenditures for this year will be less than the appropriation, and much less than was expended years ago. (See table E.)

†One of the Commission, Mr. Monroe, prefers that the number of women on the Board should be two.

## SUMMARY.

*The Commission having found* that Baltimore should have a system and adequate supervision in the care of the poor who are maintained by the city, *recommends:*

(*1*) That all the poor (not offenders), maintained or aided at city expense, shall be put under the care of the Trustees of the Poor;

(*2*) That appropriations made by the city for the poor (not offenders), shall be made to the Trustees of the Poor, to be expended by them for the care of such persons as they shall find to be charges on the city, according to law;

(*3*) That adult poor shall be kept at the almshouse or other city institution; save that for temporary care only the Trustees of the Poor may use any suitable agency, under their supervision (see page 5);

(*4*) That destitute or neglected children shall be committed to the Trustees of the Poor, to be placed by them, under proper supervision, in institutions for children or in homes, in the State of Maryland or an adjacent State, chosen with due reference to the religious belief of parents (see page 14);

(*5*) That the sick poor needing hospital treatment (outside of a city institution), shall be admitted by the Trustees of the Poor to any one of a limited number of hospitals chosen by the Trustees for the advantages they offer for proper treatment of the sick;

(*6*) That a reasonable amount of medical treatment outside of hospitals shall be provided by the city for sick poor who are unable to pay for dispensary treatment, through dispensaries (limited in number and located in districts) chosen by the Trustees of the Poor for the advantages they offer for proper treat-

ment of the sick ; or else (if necessary) directly through the Trustees ;

(7) That the Board of Trustees of the Poor be increased to nine in number, of whom three shall always be women; and the duration of whose term of office shall be so fixed as to provide for a gradual change in the membership of the Board.

JEFFREY R. BRACKETT *(Chairman)*,
CLARENCE H. FORREST *(Secretary)*,
EUGENE LEVERING,
A. WARFIELD MONROE.

The published reports, etc., referred to by the Commission are in the hands of the Chairman.

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*To the Honorable the Mayor and City Council of Baltimore :*

In my view, the duty of the Commission appointed under Ordinance No. 77, above referred to, was to examine fully the facts and conditions relating to the matters of the indigent and sick poor in this city, and to recommend to you a system whereby, under the law, persons in those classes may be properly and best cared for.

With very many of the findings and recommendations contained in the report of a majority of the Commission (especially those relating to hospitals and dispensaries) I agree; but, after careful consideration, I must dissent from so much of their report which recommends the limitation of the city's aid to those who are exclusively in city control; and especially regarding the children, as to whom the report states that the " Commission believes that all the destitute or neglected children whom the city has to support should be in the custody of city officials, etc.," and following this principle that the city charter should provide : "That the city shall pay for the maintenance of such neglected or destitute children *only* as shall be *committed to the Trustees of the Poor,* and shall be duly accepted by the Trustees as charges on the city."

With the principles that it is proper for the city to decide, by

its own agents, what persons are properly public charges, whether as aged, sick or indigent, and whether adults or minors, and how long they should remain such, I fully agree. But I hold this should be done solely to prevent fraud and imposition. I further believe that the city, in employing private agencies, should do so by contract ; that those agencies offering the best services, as judged by reasonable standards, should be accepted ; and when so accepted that the city should by its own agents supervise the work and visit the dependents, to be assured that such dependents receive the best available care, and the kind for which the city had contracted.

It seems to me, however, that in making recommendations regarding this subject, existing local conditions should be somewhat considered.

The Commission did not find that the city was imposed upon in caring for non-resident children; it believed that the great majority of the children now cared for at city expense in private institutions were being reasonably well cared for ; and we believe that those who are not being well cared for, would be (or else would be removed from their present surroundings), provided a proper system of supervision by suitable city agents should be put in force.

In response to the request (made by the Commission) for suggestions by the public, no complaint was received. Examination of the tables appended to the report will show that there is no institution used by the city which contains a large number of children ; that, in fact, the number in most of them is quite small ; so that the evil of "institutionalizing" referred to as existing in some cities (where there are homes containing 1000 or more children) is non-existent here. Also, with the exception of the case of colored foundlings, the death rate is remarkably low, several of the institutions not having had a single death during the past year.

In a word, we may say that, as a rule, the institutions here are being well conducted ; and this is largely because of the enthusiasm and earnest co-operation of the well-disposed citizens (men and women) composing their governing boards, who sacrifice time and money in their desire to do good ; and because of the feelings of personal responsibility which, under the present system, rest upon them. Again, the cost to the city by the

present system is very low ; in my opinion, much less than if the entire custody and control of the children is given to city officials.

So far as the city is concerned, at the average rates of $50.— per child per annum in three institutions for colored children, and of about $90.—per child per annum in six institutions for white children,* the city only provides for about 387 children ; whereas, there are in the institutions used by the city alone about 1300 children, to say nothing of the children in all the other institutions which receive no money from the city. So that we may certainly conclude that the city at present by no means pays for all the children who are properly public charges; from which it follows that they are being cared for by private charity ; and this is true, notwithstanding the fact that eight of the institutions used by the city receive $21,500.— from the State of Maryland.

In my judgment, however, the real issue is far more important than one of dollars and cents alone. And I would recall the extract from Judge Alvey's opinion in the case of the Industrial School *et als. versus* Brown *et als.* (45 Md. Reports 310), which says that in the discharge of the duties of the trust confided to it the city must regard "*those who are the objects of the trust*," *as well as* "those who support it by contributions in the form of taxes." This leads to a discussion of the question as to what is the best method of caring for dependent and neglected children which inquiry in practice means, shall they be placed in institutions or in families, "bound out," as it was formerly called.

It is not my purpose to discuss this question here beyond what has been said in the majority report ; we agreed that one large city home for children should not be established, and that the institution of such would be a step backward. That the real object in caring for dependent children is to fit them to become useful citizens in the community as soon as possible ; and that different children require different methods.

But I do maintain that there is yet a difference of opinion among the persons engaged in child-saving work as to whether

*With three institutions, I am informed the city has no contract rate; they receive $4,700.— At the same rate this would provide for 52 additional children.

the plan of putting children in institutions or that known as "placing out" is the better.

For a given child, the better plan to be selected will depend upon its disposition and habits, and upon its previous training, or, what will be more frequently the case, its lack of previous training.

There are three divisions of children to which the recommendations of the Commission will apply, viz: "foundlings," "neglected" and "destitute" children:

As to foundlings (poor little babes needing the immediate care of a woman) we all agreed that they should be sent to a foundling hospital at once; and this because a loss of care for an hour or two may cause death.

The city, if it has any humanity, must care for them; they are the equivalent of emergency cases at the hospitals. After much reflection, I cannot see one desirable object to be gained by committing these poor little waifs until their majority (18 years for girls and 21 years for boys) to the custody of city officials.

It must be remembered that "neglected" and "destitute" children, if committed to the custody of city officials, would have to be taken to the office of the Trustees of the Poor at the City Hall; when there, plainly something would have to be done with them at once; they could not remain for over a few hours at most. They would be sent to an institution or put in a family by the clerk at the office of the Trustees of the Poor, in the exercise of his or her discretion.

Now, in the vast majority of cases, how could the clerk aforesaid, or the whole Board of Trustees for that matter, form a judgment amounting to more than a guess by looking at the child (which might be from two years of age upwards) conducted before them by an officer, or by some poor mother or other relative who had lost all hope? Whereas, a reasonable time spent in a good institution under the practised eye of those in charge would be sufficient to indicate what would be the best for the child.

Again, "neglected" children have usually "run wild," and I believe the discipline of a good institution is most valuable in starting such a child on the road marked by the milestones, "obedience," "regular habits," "cleanliness," "morality," etc.

## DESTITUTE CHILDREN.

It is intimated in the report aforesaid that under the system of commitment to private institutions by magistrates, persons frequently send children "to those of their own choice." And that placing children "in the custody of public officials * * * tends to increase the efforts which persons should make, as far as possible, to maintain their relatives, *and so tends to lessen the number of dependents.*"

If there are relatives so fixed as to be able and willing to care for children or other dependents, so that such dependents are not properly public charges, in that case the Trustees can and should refuse to receive them as such. But if it is true that placing in custody of public officials tends to lessen the number of dependents, one, if not the only real reason is, because the dependent, or (if a child) the dependent's mother or relative, stands aghast at the brand "pauper." And commitment to the said Trustees will be construed as an "admit" to Bay View Asylum is, viz: that the dependent has come to the level of pauperism, one definition of which is a "hopeless and degraded condition."

Most "destitute" children are committed by their mothers. In the name of humanity, what is wrong in a mother desiring to choose the place where her child shall go and where she can visit it and know of its welfare? If she is a bad, degraded, pauper mother, and having a "neglected" child, she will not have a care as to where the child goes; and in such case the magistrate would have to use his best judgment. But, I say, if she is a good one, *commend* and *aid* her to choose a proper home for her offspring and encourage her to visit it at suitable times.

Then, again, some of the objections to the plan of committing to the custody of public officials are: First, that the city must then go into the business of guardianship; and, secondly, that it will practically leave the determination of the disposition of all poor children in the hands of one or two clerks of said Trustees, which clerks will hold their offices probably for the term of the Board under which they serve, and no longer, and to which Board they will owe their lease of official life.

That the Trustees (who are unpaid) will be at the City Hall

to superintend the placing of children from day to day, or that they will personally go about the State of Maryland and adjacent States visiting children "placed out," is, to my mind, highly improbable. So that it would seem to me that the net result will be that the placing, the care, and the physical and moral welfare of a poor child committed as aforesaid, will be largely, if not entirely, in the hands of one or two appointees possibly (?) selected for political reasons, and interested in the position he or she holds because of the salary paid ; and possibly (?) such appointees will be without any special devotion to, or aptitude, for that particular work.

In short, I do not believe that because persons are *poor* and *destitute* and *under the necessity of seeking public aid, that they have lost all rights*, that all previous refinement should be ignored, or that all human love and kindness in them should be crushed out. And I feel that *commitment to public custody* can only have such effect. We may expect to find the mother, who commits her child to the Trustees, herself in Bay View Asylum.

It seems to me that when the State gives aid it should do so on the right lines followed by any other good charitable agency, and should extend that aid: first, so as to avoid publicity as far as possible, and, secondly, so as to *help the needy* and prevent them from crossing the pauper line.

The charitable organizations of this city know that there is a large number of persons, who, never well-to-do, are in destitute circumstances as soon as any unusual, though slight, misfortune overtakes them ; but who, if helped for a time and wisely advised, will be preserved within the lines of decent living, and made self-sustaining ; neglect them, however, or push them across the pauper line, and there will be no return.

## CONCLUSION.

Wherefore, I am opposed to committing the poor children to the custody of public officials. And as a substitute for so much of the report of the Commission as to children, I would recommend that the children should be committed, as now, to institutions, and that the city, through its own agents, should have a more direct care and supervision over the destitute and neglected children, which may be committed to institutions at city ex-

pense. That whenever any child is committed to any such institution, the Justice of the Peace shall immediately notify the Trustees of the Poor of the fact, who shall, by themselves or their agent, make proper investigation and determine whether such child is a proper public charge, and how long and subject to what provisions such child shall remain a public charge.

That whenever any such institution having committed children who have been accepted by the city as public charges shall place them out in families, said institution shall immediately notify the Trustees of the Poor of the fact, on forms to be provided by said Trustees ; after date of which notification the city shall make no further payment for such child.

That the said Trustees or their agent shall visit all institutions in which are public charges, committed as aforesaid, at least once in every six months.

That whenever said Trustees or their agent shall find a child, who is a public charge, not being well cared for in an institution said Trustees shall immediately take proceedings to have the matter inquired into by *habeas corpus* or other proceedings, to the end that the child may be removed to a better place. And for this purpose that the Trustees should be constituted a corporation.

## LEGISLATION REQUIRED.

Wherefore, I would recommend that legislation be secured by the city from the General Assembly as follows :

To constitute the Trustees of the Poor, for the purposes of supervising the care of dependent children in institutions and the sick in hospitals and dispensaries of the city, a body corporate, with full powers to take all necessary proceedings whereby the best obtainable care may be had for all those receiving aid ; and

That the city charter shall provide :

(*a*) That the city will pay for the maintenance of such destitute or neglected children only as, having been committed to the care of an institution, shall have been accepted by the Trustees of the Poor as proper public charges. Provided, that if any

unfairness on the part of said Trustees be alleged regarding the acceptance or retention of a child as a public charge, their conduct may be reviewed upon petition to one of the Judges of the Supreme Bench of Baltimore City :

(*b*) That it shall be the duty of the Trustees of the Poor to have supervision over the children, who are public charges in institutions, and to look out for the welfare of said children ; and to have all such children visited and their circumstances carefully examined, not less than once in every six months, by one of their body or by skilled agent or agents appointed by them for that purpose :

(*c*) That whenever it shall be deemed to be for the best interests of any child who is a public charge as aforesaid, that it should be placed in a family home, it shall be the duty of the institutions in which such children are to place out said children in good families within the State of Maryland ; provided, suitable homes can be found, and, provided further, that as far as possible (except for strictly temporary care for infants then under two years of age) all children shall be committed to institutions or placed in families where they will receive the religious instruction known to have been of the form desired by their parents or which may be desired by the persons properly interested in said children by relationship :

(*d*) That whenever a destitute or dependent child is committed to any institution in this city by a Justice of the Peace or a Judge of the Supreme Bench of Baltimore City, said Justice or the Clerk of the Court in which said Judge may be, shall immediately notify the Trustees of the Poor of such commitment ; whereupon it shall be the duty of said Trustees to make investigation without delay into the circumstances and surroundings of such child and to determine whether said child is properly a public charge ; to information of which fact, any representative of such institution shall be entitled.

(*e*) That the said Trustees shall also have power to provide by reasonable regulations when any such child shall cease to be a public charge ; and if any such child shall be by them deter-

mined to no longer be a public charge, then the institution in which such child is shall be at once notified of the fact.

In closing I would call attention to the fact that the new charter of New York City, which is the latest in that line, provides that children who are public charges shall be committed to institutions and not to the custody of public officials. (See Sections 665, 666 and 667 of said charter.)

*Respectfully submitted,*

THOS. FOLEY HISKY.

# Table A

## MUNICIPAL APPROPRIATIONS FOR CITY POOR FOR 25 YEARS.

| Years. | City Tax Rate. | For City Poor. | Product on Rate. | Amount Required. | Total Appropriations City Poor. |
|---|---|---|---|---|---|
| 1897 | $2.00 | .13 or .065% | $264,296.50 | $268,225. | $383,250. |
| 1896 | 2.00 | .11 " .055% | 239,294. | 239,695. | 345,695. |
| 1895 | 1 75 | .12 " .0685+ % | 257,544. | 255,510. | 348,895. |
| 1894 | 1.70 | .10 " .0588 + % | 208,800. | 219,381.79 | 340,785. |
| 1893 | 1.55 | .11 " .0709+ % | 226,512. | 228,736.93 | 320,425. |
| 1892 | 1.55 | .10 " .0645+ % | 201,600. | 195,945.66 | 302,719.86 |
| 1891 | 1.55 | .10 " .0645+ % | 200,160. | 202,834.85 | 293,034.85 |
| 1890 | 1.85 | .10 " .0540+ % | 197,280 | 201,402.64 | 270,450. |
| 1889 | 1.90 | .08 " .0421+ % | 156,672. | 159,426. | 228,215. |
| 1888 | 1.90 | .09 " .0473+ % | 173,016. | 168,438.95 | 238,313.95 |
| 1887 | 1.60 | .09 " .0562½% | 169,776. | 159,934.71 | 217,270. |
| 1886 | 1.70 | .08 " .0470+ % | 144,480. | 143,447.50 | 214,210. |
| 1885 | 1.60 | .09 " .0562½% | 160,650. | 163,943.75 | 213,600. |
| 1884 | 1.60 | .07 " .0437+ % | 122,500. | 125,123.34 | 185,850. |
| 1883 | 1.50 | .08 " .0533 + % | 142,272. | 143,690.89 | 189,486.51 |
| 1882 | 1.37 | .06 " .0437+ % | 105,000. | 91,792.28 | 172,093.01 |
| 1881 | 1.37 | .09 " .0656+ % | 157,500. | 160,576. | 160,576. |
| 1880 | 1.37 | .06 " .0437+ % | 106,260. | 113,362.50 | 165,162.50 |
| 1879 | 1.50 | .05 " .0333+ % | 84,000. | 90,417.50 | 150,862.50 |
| 1878 | 1.90 | .07 " .0368+ % | 124,950. | 128,229.17 | 167,729.17 |
| 1877 | 1.75 | .06 " .0342+ % | 107,336.46 | 118,107.45 | 163,107.45 |
| 1876 | 1 80 | .05 " .0277+ % | 81,026.10 | 52,700. | 104,700. |
| 1875 | 1.80 | .05 " .0277+ % | 80,934.87 | 94,650. | 157,350. |
| 1874 | 1.80 | .06 " .0333+ % | 95,880.64 | 100,000. | 154,000. |
| 1873 | 1.63 | .05 " .0306+ % | 78,654.84 | 80,800. | 130,800. |

Population of Baltimore in 1870 was 267,354.

" " " 1880 " 332,313, showing percentage of increase, .2429+.

" " " 1890* " 434,439, " " " " " .3073+.

*The population in 1890 includes population of territory annexed in 1888.

# Table B

| INSTITUTIONS FOR CHILDREN RECEIVING MUNICIPAL APPROPRIATIONS. | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 | 1883 | 1882 | 1881 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FOR WHITE CHILDREN— | | | | | | | | | | | | | | | | | |
| St. Vincent's Infant Asylum (both sexes) | $6,000 | $6,000 | $7,000 | $7,000 | $5,000 | $5,000 | $5,000 | $5,000 | $5,000 | $5,000 | $5,000 | $5,000 | $3,000 | $1,500 | $1,500 | $1,500 | No Appropriations made for Children's Institutions from *1876 to 1881* inclusive. |
| Nursery & Child's Hospital (both sexes) | 3,700 | 3,700 | 4,200 | 4,200 | 4,200 | 4,000 | 3,500 | 3,500 | 3,500 | 3,000 | 2,500 | 1,500 | 1,500 | 1,500 | 1,500 | 1,500 | |
| Home of the Friendless (both sexes).... | 2,275 | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 | 1,500 | 1,500 | 1,500 | |
| General German Orp. Asyl.(both sexes) | 1,000 | 1,000 | | | | | | | | | | | | | | | |
| St. Joseph's House of Industry (girls) .. | 1,600 | 1,600 | 2,000 | 2,000 | 1,000 | 1,000 | 1,000 | 1,000 | | | | | | | | | |
| St. Mary's Female Orphan Asyl. (girls) | 9,000 | 9,000 | 9,800 | 9,800 | 9,800 | 8,800 | 7,288 | 5,000 | 4,000 | 3,500 | 2,500 | 2,000 | | | | | |
| St. Vincent de Paul Orphan Asyl. (boys) | 1,600 | 1,600 | 2,000 | 2,000 | 3,000 | | | | | | | | | | | | |
| Baltimore Manual Labor School (boys). | 1,500 | 1,500 | 1,500 | 1,500 | 1,500 | | | 1,000 | 1,000 | 1,000 | | 1,000 | | 1,500 | | | |
| Boys' Home Society (boys)..... | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 2,000 | 2,500 | | |
| FOR COLORED CHILDREN— | | | | | | | | | | | | | | | | | |
| Simmons Home (both sexes)..... | 1,500 | 800 | 1,000 | 700 | 500 | | | | | | | | | | | | |
| St. Elizabeth's Home (both sexes)..... | 3,500 | 3,500 | 4,000 | 4,000 | 3,000 | 3,000 | 3,000 | 2,000 | 2,000 | 2,000 | 1,000 | 1,000 | 1,000 | 750 | 750 | | |
| St. Mary's Home for Colored Boys..... | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | | | | | | | |
| Grand Total..... | $35,175 | $34,300 | $37,100 | $36,800 | $33,600 | $27,400 | $25,388 | $23,100 | $21,100 | $20,100 | $16,100 | $15,600 | $10,600 | $8,750 | $7,750 | $4,500 | |
| **Total for White Children** | 29,675 | 29,500 | 31,600 | 31,600 | 29,600 | 23,900 | 21,888 | 20,600 | 18,600 | 17,600 | 15,100 | 14,600 | 9,600 | 8,000 | 7,000 | 4,500 | |
| **Total for Colored Children** | 5,500 | 4,800 | 5,500 | 5,200 | 4,000 | 3,500 | 3,500 | 2,500 | 2,500 | 2,500 | 1,000 | 1,000 | 1,000 | 750 | 750 | | |

## Table C

| HOSPITALS RECEIVING MUNICIPAL APPROPRIATIONS. | Number of City Beds in 1897. | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 | 1883 | 1882 | 1881 | 1880 | 1879 | 1878 | 1877 | 1876 | 1875 | 1874 | 1873 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| College Physicians and Surgeons (City) | 100 | $16,900 | $16,900 | $16,900 | $16,900 | 16,900 | $15,845 | $12,675 | $11,250 | $6,750 | $6,750* | $6,750 | $6,750 | $6,750 | $6,500 | $4,500 | $9,000† | $9,000 | $9,000 | $9,000 | $10,000 | $10,000 | $14,000 | $20,000 | $10,000 | $10,000 |
| University of Maryland | 60 | 10,140 | 10,140 | 10,140 | 9,700 | 8,450 | 8,450 | 6,760 | 6,750 | 6,750 | 6,750 | 6,750 | 6,750 | 6,750 | 6,500 | 4,500 | | | | | | | | | | |
| Maryland General | 55 | 9,295 | 9,295 | 9,295 | 8,855 | 7,605 | 7,605 | 7,605 | 7,070 | 4,435 | 2,535 | 2,535 | 1,755 | | | | | | | | | | | | | |
| Baltimore University | 40 | 6,760 | 6,760 | 6,760 | 6,760 | 6,370 | 5,070 | 5,070 | 4,535 | 2,535 | 2,535 | 2,535 | 1,755 | | | | | | | | | | | | | |
| St. Joseph | 30 | 5,070 | 5,070 | 5,070 | 5,070 | 4,680 | 3,380 | 1,690 | 1,300 | | | | | | | | | St. Joseph | | | | | | | 500 | 550 |
| St. Agnes | 30 | 5,070 | 5,070 | 5,070 | 4,630 | 2,990 | 1,690 | | | | | | | | | | | Union Protestant Infirmary | | | | | | 500 | 500 | 750 |
| Hospital of the Good Samaritan | 20 | 3,380 | 3,380 | 3,380 | 2,940 | 1,690 | 1,690 | 1,690 | 1,545 | 845 | 600 | | | | | | See Note § | Maryland Eye and Ear Institute (12 beds) | | | | | | 1,500 | 1,500 | 1,500 |
| Maryland Homeopathic | 20 | 3,380 | 3,380 | 3,380 | 3,380 | 1,690 | 1,690 | | | | | | | | | | | Baltimore Eye and Ear Institute (12 beds) | | | | | | 1,500 | 1,500 | 1,500 |
| Provident (colored) | 20 | 3,380 | 2,500 | | | | | | | | | | | | | | | Maryland-Lying-In Hospital (12 beds, $3.25 per week) | | | | | | 2,500 | | |
| | | | | | | | | | | | | | | | | | | St. Andrew's Hospital | | | | | | 500 | 500 | 300 |
| Total | 375 | $63,375 | $62,495 | $59,995 | $58,235 | 50,375 | $45,420 | $35,490 | $32,450 | $21,315 | $19,170 | $18,570 | $17,010 | $13,500 | $13,000 | $9,000 | $9,000 | $9,000 | $9,000 | $9,000 | $10,000 | $10,000 | $14,000 | $26,500 | $14,500 | $14,600 |
| Number of Hospitals receiving appropriations | | 9 | 9 | 8 | 8 | 8 | 8 | 6 | 6 | 5 | 5 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 7 |
| Number of beds paid for by City | | 375 | 375 | 355 | 355 | 315 | 275 | 250 | 250 | 130 | 115 | 110 | 110 | 80 | 80 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 136 | 124 | 124 |

*As Washington University. †Gross appropriaton for "sick at Universities."

§ Prior to, and including 1875, various institutions including hospitals received municipal appropriations, which did not receive appropriations in 1876, and a number of subsequent years.

¶Ordinance No. 41 of 1871 authorized indigent sick or disabled persons who may be entitled to relief under the ordinances of the city, to be sent to the hospitals of Washington University and the University of Maryland; provided that not more than fifty such pesons shall be in either hospital at one time. Ordinance No. 142 of 1875 increased the hospitals by including St. Joseph Hospital, with the same provision of not more than fifty city patients in any one hospital. Eight months later, Ordinance No. 63 of 1876 was passed, which recites in the preamble "Whereas, there have been many cases sent to the Washington and Maryland Universities, which are not properly such cases as are contemplated in the original ordinance for the support of the indigent sick and helpless persons of the city of Baltimore for medical and surgical treatment, and for which the Mayor and City Council of Baltimore pay at the rate of $3.25 per capita per week, and whereas, most of such cases are proper subjects for Bayview Asylum, where they meet with as good treatment as in any of the colleges, universities or hospitals named above, at about one-half the expense, and whereas, the object of said ordinance was to provide for persons who are injured by accident, or are not in a condition to be sent to Bayview Asylum, and not for those who are in condition to besent to and receive protection and proper medical treatment at Bayview Asylum." The ordinance thereupon restricted the number of city patients to not more than twenty-five in the hospitals of the Washington University and University of Maryland respectively. This number remained unchanged until 1884, since which it has rapidly been increased.

## Table D

| DISPENSARIES RECEIVING MUNICIPAL APPROPRIATIONS. | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 | 1883 | 1882 | 1881 | 1880 | 1879 | 1878 | 1877 | 1876 | 1875 | 1874 | 1873 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lombard Street | | | | | | | | | | | | | | | | | | | | | | | | | $ 500 |
| Polyclinic | | | | | | | | $ 500 | $ 300 | $ 500 | $ 500 | $ 500 | | | | | | | | | | | | | |
| Northwestern | | | | | | $ 400 | $ 400 | 400 | 400 | 400 | 400 | 400 | $ 400 | $ 500 | $ 400 | $ 400 | $ 400 | $ 400 | $ 400 | $ 400 | $ 600 | | $ 600 | $1,000 | |
| College of Physicians and Surgeons | $1,500 | $1,500 | $1,300 | $1,450 | $1,250 | 1,250 | 1,000 | 1,000 | 800 | 800 | 800 | 800 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 1,000 | 600 | | 600 | 850 | $ 500 |
| University of Maryland | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 800 | 800 | 800 | 800 | 400 | 400 | 800 | 800 | 400 | 400 | 400 | 400 | 600 | | 600 | 850 | 500 |
| Baltimore General | 1,800 | 1,800 | 2,000 | 2,000 | 1,500 | 1,000 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 1,000 | 400 | 400 | 400 | 400 | 400 | 1,000 | 600 | | 600 | 750 | 750 |
| Baltimore Medical College | 1,200 | 1,200 | 1,500 | 1,500 | 1,500 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 800 | 600 | 600 | 400 | 400 | 400* | 400* | 400* | 400* | 400* | 600* | | 600* | 750* | 750* |
| Northeastern | 1,200 | 1,200 | 1,500 | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 1,000 | 800 | 800 | 800 | 1,000 | 1,000 | 600 | 600 | 400 | 600 | | 600 | 750 | 750 |
| Eastern | 1,800 | 1,800 | 1,800 | 1,800 | 1,400 | 1,000 | 1,000 | 1,000 | 700 | 900 | 900 | 1,000 | 600 | 600 | 400 | 400 | 400 | 400 | 400 | 400 | 600 | | 600 | 750 | 750 |
| Southern | 1,000 | 1,000 | 1,200 | 1,200 | 1,200 | 1,000 | 1,000 | 1,000 | 1,200 | 900 | 900 | 800 | 800 | 800 | 800 | 1,000 | 1,000 | 600 | 600 | 1,000 | 600 | | 600 | 750 | 750 |
| Woman's and Child's | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 400 | 400 | 400 | | | | | | | | | | |
| Baltimore University | 1,000 | 1,000 | 1,200 | 1,200 | 1,000 | 1,000 | 1,000 | 1,000 | 600 | 1,000 | 900 | 800 | 600 | | | | | | | | | | | | |
| Southern Homeopathic | 800 | 800 | 1,000 | 500 | | 700 | 700 | 700 | 700 | 700 | 600 | 600 | 400 | 600 | 400 | 400 | 400 | 400 | 400 | 400 | 600† | | 600† | | |
| Maryland Homeopathic | 500 | | | | | | | | | | | | | | | | | | | | | | | | |
| Baltimore Homeopathic | 700 | 700 | 700 | 700 | 700 | 700 | | | | | | | | | | | | | | | | | | | |
| Evening Dispensary for Working Girls | 800 | 800 | 800 | | | | | | | | | | | | | | | | | | | | | | |
| Provident Hospital | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | | | | | | | | | | | | | | | | | |
| Baltimore Eye, Ear & Throat Charity Hospital | 500 | 500 | 500 | 500 | 500 | 500 | 500 | | 500 | 400 | | | | | | | | | | | | | | | |
| Baltimore College of Dental Surgery | 500 | 500 | | 500 | | | | | | | | | | | | | | | | | | No appropriations made for Dispensary service in 1876. | | | |
| Dental Dispensary, University of Maryland | 500 | 500 | | | | | | | | | | | | | | | | | | | | | | | |
| Hebrew Hospital and Asylum Association | 1,500 | 1,500 | 1,500 | 1,500 | | | | | | | | | | | | | | | | | | | 500§ | 1,000§ | |
| Total | $17,600 | $17,100 | $18,000 | $16,750 | $12,950 | $11,950 | $10,100 | $10,100 | $9,000 | $9,400 | $8,600 | $8,400 | $6,400 | $5,900 | $5,200 | $5,200 | $4,800 | $4,000 | $4,000 | $5,400 | $5,400 | | $5,900 | $7,450 | $5,250 |
| Number of Dispensaries receiving appropriations | 18 | 17 | 16 | 16 | 13 | 15 | 13 | 13 | 13 | 13 | 12 | 12 | 11 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | | 9 | 8‡ | 8‡ |

* As Baltimore Special. † As Central. ‡See note §.

§ Appropriated, but not drawn in 1873, and reappropriated in 1874. This money was not specifically appropriated for Dispensary service, but it is stated that the money received by this Institution since 1894 is so used.

# Table E.

| APPROPRIATIONS FOR CITY POOR NOT INCLUDED IN APPROPRIATIONS FOR CHILDREN'S INSTITUTIONS, HOSPITALS AND DISPENSARIES. | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 | 1883 | 1882 | 1881 | 1880 | 1879 | 1878 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| REFORMATORY INSTITUTIONS FOR WHITE CHILDREN— | | | | | | | | | | | | | | | | | | | | |
| St. Mary's Industrial School (for boys) | $ 20 000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 22,101.75 | $ 20,000 | $ 20,000 | $ 20,000 | $ 20,000 | $ 15,000 |
| House of Refuge (for boys) | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 21,367.50 | 20,000 | 20,000 | 20,000 | 20,000 | 15,000 |
| House of Refuge Manual Training School | 3,000 | 3,000 | 3,000 | 3,000 | 2,000 | | | | | | | | | | | | | | | |
| Female House of Refuge (for girls) | 5,000 | 2,700 | 3,000 | 4,000 | 4,000 | 4,000 | * 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 2,000 | 1,500 | | | | |
| FOR COLORED CHILDREN— | | | | | | | | | | | | | | | | | | | | |
| House of Reformation | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 10,000 | 10,000 | 8,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 12,436 | 15,000 | 15,000 | 15,000 | 15,000 | ‡15,000 |
| House of the Good Shepherd for Colored Girls | 3,500 | 2,000 | 2,500 | 2,500 | | | | | | | | | | | | | | | | |
| Industrial Home for Colored Girls | 2,700 | 2,700 | 3,000 | 3,000 | 3,000 | 2,500 | 2,500 | 1,800 | 2,500 | 1,500 | 1,500 | 1,500 | 3,000 | 2,000 | | | | | | |
| FOR INSANE— | | | | | | | | | | | | | | | | | | | | |
| Mt. Hope Retreat | 42,500 | 33,000 | 33,000 | 33,000 | 38,000 | 38,000 | 30,000 | 37,000 | 24,000 | 20,000 | 26,000 | 26,000 | 23,000 | 23,000 | 22,305.43 | 13,000 | 13,000 | 10,500 | 12 300 | 8,000 |
| Maryland Hospital for the Insane (Spring Grove) | 42,500 | 30,000 | 30,000 | 24,000 | 25,000 | 24,000 | 20,000 | 25,000 | 12,000 | 14,000 | 13,000 | 15,000 | 23,000 | 23,000 | 26,025.83 | 26,593.01 | 23,000 | 21,000 | 25,000 | 20,000 |
| Second Maryland Hospital for the Insane (Springfield) | 2,500 | | | | | | | | | | | | | | | | | | | |
| Montevue Hospital (Frederick, Md.) | 600 | | | | | | | | | | | | | | | | | | | |
| FOR DEAF AND DUMB— | | | | | | | | | | | | | | | | | | | | |
| Deaf and Dumb Asylum (Frederick, Md.) | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 200 | 500 | 500 | | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| FOR SHELTER— | | | | | | | | | | | | | | | | | | | | |
| Bay View Asylum | 105,000 | 100,000 | 105,000 | 105,000 | 97,500 | 95,000 | †95,200 | 85,000 | 85,000 | 80,000 | 80,000 | 80,000 | 80,000 | 60,000 | 60,000 | 60,000 | § 58,500 | 63,000 | 55,000 | 70,000 |
| Shelter for Aged Colored Poor | 1,000 | 1,000 | 1,000 | 1,000 | 500 | 500 | 500 | 1,000 | 1,000 | 500 | | 500 | | | | | | | | |
| Friendly Inn | 1,000 | 1,000 | | | | | | | | | | | | | | | | | | |
| FOR SPECIAL PURPOSES— | | | | | | | | | | | | | | | | | | | | |
| Transportation of Poor | 800 | 800 | 800 | 1,000 | 1,000 | 1,000 | 1,500 | 1,500 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,200 | 800 | 800 | 1,000 | 1,000 |
| Free Baths | 500 | | | | | | | | | | | | | | | | | | | |
| Total | $263,100 | $228,700 | $233,800 | $229,000 | $223,500 | $217,500 | $203,200 | $204,800 | $176,700 | $170,500 | $175,000 | $177,000 | $183,500 | $162,500 | $167,736.51 | $157,793.01 | $150,800 | $150,800 | $148,800 | $144,500 |

*Not including $7,000 for improvements.
†Not including $17,056.85 for additional ground and improvements.

§Not including $56,200 for improvements. In this and previous years an extra appropriation for insurance varying from $862.50 to $1,000 was made.
‡Prior to and including 1878, an extra appropriation of $500 a year was made for transportation of inmates to the House of Reformation.

# Table F.—Statistical Report of Institutions for Children to which Appropriations are made by the City of Baltimore.

| NAME | LOCATION | INCORPORATED | WHEN AND HOW | OBJECT AND CHARACTER OF WORK | Cost of Ground in Fee, Buildings and Equipments | Annual Rent, if any | Total Revenue Last Fiscal Year | Annual Appropriation by State of Maryland | Annual Appropriation by City of Baltimore | Average Receipts from Other than Public Sources. | Amount of Money Received from the Labor of Inmates | Total Expenses During Last Fiscal Year | Persons Engaged in the Management and Care of the Institution. Superintendent | Matron. | Teachers | Servants | Not Otherwise Classified | Physicians | Resident | Visiting | Trained. | Nurses Untrained. | Total. | Total Salaries and Wages Paid Employés | Number of Persons Receiving no Compensation Except Support | Total Accommodation for Inmates | Number of Inmates at Present. | Since Date of Organization | During Last Fiscal Year | Number of Inmates Received | Number of Inmates Committed by Courts During Last Fiscal Year | Number so Committed now in the Institution | Does Your Institution Find Homes for Children | Total Number | During Last Fiscal Year | How Many Held in 1896 in Homes Placed out by Your Institution | What Means Does Your Institution Employ to Learn Whether the Homes so Provided are Suitable? | If the Homes Provided are Found Unsuitable, What Becomes of the Children Removed to the Institution or Removed to Other and Suitable Homes? | What School Facilities and for How Long a Time Are Afforded the Children in Your Institution? | P. O. Address (Street and Number) | Date of Fiscal Year End |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FOR WHITE CHILDREN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| The Nursery and Child's Hospital of Baltimore City | Franklin and Schroeder Sts. | Yes | General Law | In 1878 | Care of infants and children * | $150,000 | Not rented | $12,494 70 | $2,500 | $1,700 | $6,500[2] | $ | $ 9,741 88 | 1 | | 1 | 7 | 1 | 1 | 3 | 2 | 20 | 36 | $1,000 | .. | 175 | 127 | 240 | 8 | 163 | 32 | 8 | Yes | 117 | 32 | 11 | By references, correspondence and sometimes visits | Returned or removed. [5] | Kindergarten | 66 | April 1, 1897 |
| St. Vincent's Infant Asylum of the City of Baltimore | Dr. Jason St. and Lafayette Ave. | Yes | " April 30, 1857 | | Home of foundlings, infants and orphans[6]. | 130,000[7] | | 15,694 48 | 5,000 | 6,000 | 6,000[8] | | 15,355 13 | | | 1 | 15 | 13[9] | | 1 | 5 | 10 | 45 | 2,583 45 | 12 | 200 | 198 | 8 | 27 | 192 | 190 | 130 | Yes | 130 | 12[10] | | Ask for semi-annual report | Returned and replaced | Kindergarten | 221 | Nov. 30, 1896 |
| Home of the Friendless | Druid Hill and Lafayette Ave. | Yes | " | | Care, maintenance and education of friendless children, orphans and half orphans | 50,000 | Not rented | 13,096 48 | 3,000 | 2,275 | 2,000 | | 13,244 13 | 2 | 3 | 10 | 1 | | 5 | 3 | 24 | 278 | | 200 | 185 | 500 | 0 | 8 | 41 | 35 | Yes | 600 | 50 | 800 | Visiting and correspondence | Yes | Eleven months, kindergarten and two primaries | | Nov. 30, 1896 |
| General German Orphan Association of the City of Baltimore | Nos. 223 to 230 Aisquith St. | Yes | " May 31, 1867 | | Home for destitute orphan children | 70,000 | | 11 243 33 | 2,000 | 1,000 | | | 13,985 40 | 1 | 1 | 2 | 6 | | 1 | 1 | 12 | 2,281 | | 200 | 151 | 685 | 22 | 1 | 16 | Yes | | 4 | 58 | In charge of special committees | Other homes are found | Kindergarten and public schools; vacation school | 6 | Dec. 31, 1896 |
| St. Mary's Female Orphan Asylum of the City of Baltimore | Cold Spring Lane and Roland Ave. | Yes | Special Act, 1817-18 | | Care for destitute orphan and half orphan children | 113,800 | Not rented. | 24,575 79 | 5,000 | 9,000 | 10,000 | | 20,160 30 | | | 6 | 21 | 13[11] | | 1 | 1 | 33 | 3,212 | 2 | 230 | 235 | 2,086 | 120 | 51 | 134 | Yes | 188[12] | 120 | | Visiting by Sisters and correspondence | Returned or removed | Kindergarten, Grammar School, Primary | 100 | Dec. 31, 1896 |
| St. Joseph's House of Industry of the City of Baltimore | Lexington and Carey Sts. | Yes | November 11, 1865 | | To receive deserving indigent girls[13] | | Gr't[14] $385 | 11 053 21 | | 1,600 | 8,153 21 | [15] $ 8,693 21 | 11 146 39 | | | 1 | 9[16] | | 1 | | 11 | 344 11 | 9 | 85 | 73 | 685 | 22 | | | Yes | 612 | 28 | 350 | Personal interviews with children[17] | Returned until other homes provided | Two hours daily in each of the schools | 11 | Nov. 30, 1896 |
| St. Vincent de Paul Male Orphan Asylum | No. 112 N. Front St. | Yes | Feb. 28, 1841, and General Law, 1872 | | Care of destitute white male children[18]. | 50,000 | Not rented. | 9,700 | | 1,800 | 5,100 | | 7,200 | 1 | | | 3 | 2 | | 1 | | 7 | 900 | | 70 | 72 | 340 | 13 | 25 | 52 | Yes | 230 | 4 | 8 | Pastor of church of the district | Returns Land replaced | Parochial or public school, 20 months | | Oct. 1, 1896 |
| Baltimore Manual Labor School for Indigent Boys | Two miles southeast of Catonsville. | Yes | 1866 | | Free boarding and farm school for boys[19]. | 25,000 | | 10,000 | 2,000 | 1,500 | | | 10,335 | 1 | 1 | 2 | 4 | 3 | | | | 11 | | | 60 | 59 | 800 | | | Yes | | | | By correspondence chiefly | Returned and removed | Home of Baltimore public school | | |
| The Boys' Home Society of Baltimore | Calvert and Pleasant Sts. | Yes | Special Act, 1874 | | Home for friendless boys | 70,000 | | 13,000 | 1,000 | 3,000 | | 6,900 | 12,825 | 1 | 1 | 4 | 8 | | 1 | | 15 | 2,900 | | 150 | 200 | 220 | 62 | | | No | | | | | | Nearest Land Committee's school | | Jan. 1, 1897 |
| FOR COLORED CHILDREN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| The Summons Home for Friendless Colored Children | No. 122 Pearl St. | Yes | General Law, 1891 | | Child-saving | 3,100 | $40 | 996 29 | | 800[20] | 196 29 | | 1,721 29 | | 1 | 1 | 2 | | | | | 4 | | | 27 | 21 | 150 | 13 | 33 | | Yes | | 19 | | Recommendation[21] | Returned | Primary, five months | | |
| St. Elizabeth's Home of Baltimore City | Nos. 132 and 134 St. Paul St. | Yes | March 24, 1862 | | Sheltering and training colored children[22] | 40,000 | Not rented | 6,300 | 1,000 | 3,500 | 600 | | 5,057 | | | 3 | 13[23] | | 3 | | 10 | 524 | 13 | 150 | 115 | 200 | 2,135 | 127 | 135 | Yes | 80 | 3 | 22 | Careful inquiry and satisfactory references | Only one such case—replaced. | Grammar school, cooking and domestic work | 26 | Dec. 31, 1896 |
| St. Mary's Home for Colored Boys | Nos. 1054 and 1421 W. Biddle St. | Yes | 1847 | | To give a home and education to colored boys[24] | 3,600 | $105 | 720 | | 500 | | | 953 | | | 2 | 8 | | 1 | | 11 | 264 | 6 | 24 | 21 | 125 | 9 | 2 | 2 | Yes | 65[25] | 4 | 20 | References, frequent inquiries and visits | Removed to other homes | St. Mary's Day School, same hours as public schools. | 16 | Dec. 31, 1896 |

[1] Including farm in Baltimore County.
[2] Estimated.
[3] Not including $9,466.49 for improvements.
[4] Members of religious orders.
[5] "Sometimes we employ outdoor nurses, but, at present, have only one. We consider this the best way to raise infants."
Of whom five are members of a religious order.
[6] By adoption; by transfer to other institutions, and to their parents or relatives claiming them.
[7] Children are sometimes received back by the Nursery and Child's Hospital at all within the ages of four years. If a home is unsuitable, child is removed."
[8] "The children being usually under four years, only a kindergarten suitable for their ages is provided daily."
Many children are reclaimed by parents and friends yearly, 126 this last fiscal year.
No deaths last three years.
Since 1890.
[9] No deaths in last four years.
[10] Only three deaths in institution since its foundation.
[11] They are trained to be house servants.
[12] "One-half of each day is given to school education; during the other half they are taught washing, ironing, cooking, house cleaning and sewing, on all secular days of the year."
[13] "This is a terrible mortality, but the doctor's report will be found to account satisfactorily for this enormous death rate, all the decedents, without exception, being poor infants brought to the home in a frightfully diseased and usually in a dying condition, and the great majority having died within a very short time after admission."
[14] Plus several returned to parents.
[15] Children received in Nursery Department from birth to four years, in Hospital, up to eighteen years of age.
[16] "And other destitute and abandoned children of both sexes, and also to provide for deserving indigent or unprotected females during confinement."
[17] "From eight to fourteen years."
[18] "Whose circumstances are considered by the Board of Managers suitable for such care."
[19] "Orphans and half orphans from two to twelve years of age."
[20] "Impossible to answer accurately or approximately."
[21] "No record."
[22] "Mostly taken by friends or sent to St. Joseph House of Industry." About eighty discharged.
[23] "We also request that children be allowed to visit us frequently."
[24] "Irrespective of religious denomination."
[25] "Cannot answer."
[26] City appropriation in 1897 was $1500.
[27] "And looked after by directors."
[28] Labor of inmates plus donations $150, and children's board $216.
We have a society, called the Society [illegible] Mothers' [illegible] which we call the institution belong. These meet at the institution every Sunday afternoon [illegible] are given them. The Society [illegible] the training [illegible] given work or employment the ages [illegible] into the influences [illegible] and [illegible] they are placed [illegible] [illegible] and [illegible] same day to earn their home.
And quality them to [illegible] and [illegible] sessions.

# Table G.—Hospitals.

| NAME. | LOCATION | WHEN INCORPORATED AND HOW | OBJECT AND CHARACTER OF WORK | Cost of the Ground in Fee, Building and Equipment. | Annual Rent Paid, if any, for Part of Premises | Total Amount of Revenue in Last Fiscal Year. | Annual Appropriation from State of Maryland. | Annual Appropriation from City of Baltimore | Average Amounts Received Annually from other than Public Sources | Amount Received from Patients in Last Fiscal Year. | Total Expenses Last Fiscal Year. | Amount Received from City Last Fiscal Year for City Patients. | Number of Persons Regularly Engaged in Management and Care of the Institution. | | | | | | | | Total Salaries and Wages Paid Employes Last Fiscal Year. | Number of Persons Employed, Receiving Part of Salary as Support. | Number of Patients Received | | Number of Free Patients not State or City Patients. | | Number of Beds. | | | Last Fiscal Year Ended |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Superintendents | Matrons | Teachers. | Physicians. Nurses. Servants | Not otherwise classified | Resident. | Visiting | Trained | Untrained. | Total | | | Since Founded. | During Last Fiscal Year | Number of City Patients Received in Last Fiscal Year | Number of State Patients Received in Last Fiscal Year. | Since Founded. | During Last Fiscal Year | For White Persons. | For Colored Persons | Total. | |
| Baltimore City Hospital | Calvert and Saratoga Sts. | Under Corporation, Sisters of Mercy, Incorporated 1856. | General Medical and Surgical Work | $ 266,666 66 | $1,300 | $ 28,900 | $ 5,000 | $16,900 | ..... | $ 8,000 | $ 30,846.80 | $16,900 | 1 | .. | 32 | *26 | 5 | 14 | | 78 | $ 3,000 | 25 | 19,014,840 | 2,120 | 1,251 | 412 | 1,180 | 168 | 195 | 15 | 210 | 15 Oct. 31, 1897. |
| University Hospital | Lombard and Greene Sts. | By General Assembly in 1823 | General Hospital Work | 200,000 | .. | 29,623.21 | 5,000 | 10,140 | ..... | 1,188 97 | 30,508 61 | 9,195.62 | 1 | 1 | .. | 35 | .. 7 | 20 | 30 | | 91 | 9,075.28 | .. | 130 | | | | | | 190 | 60 | 250 | 127 Mar. 31, 1897. |
| Maryland General Hospital and Maryland Lying In Hospital | Linden Ave. nr. Madison St. | General Incorporation Act, May 27, 1885, and in 1888 | Humanitarian and Educational Work | 75,000‡ | ... | ..... | 8,000 | 9,295 | ..... | ... | 25,000 | 8,487 57 | 1 | 1 | 12 | 16 | 2 5 | 16 | 22 | .. | 75 | 5,331 94 | 1 | 115 | .. | 1,587 | 1,071 | 108 | | 146 | 159 | 41 | 200 | 83 April 30, 1897. |
| The Johns Hopkins University Hospital | Nos. 21 to 29 N. Bond St. | General Incorporation Act, in 1884 | Treatment of Sick and Injured | 15,800 | 336 | 10,000 | 1,000 | 6,760 | $ 67 | 40 | 10,000 | 5,643.18 | 1 | 1 | 10 | 7 | 1 2 | 10 | 6 | | 38 | 1,326.19 | 2 | 31 | .. | 125 | 460 | 10 | | 12 | 18 | 60 | 15 April 30, 1897. |
| St. [illegible] Hospital | Caroline and Hoffman Sts. | General Incorporation Act, in 1874 | General Hospital Work | 200,000 | .. | 12,078.32 | ... | 5,070 | 3,939.32 | 3,069 | 11,413 78 | 5,070 | 1 | | | 21 | 1 4 | 8 | 10 | 14 | 59 | 4,364 | 12 | 80 | | 688 | 908 | 32 | | 195 | 91 | | 91 | 48 Dec. 31, 1896. |
| St. [illegible] Hospital | Wilkens Ave., extended | General Incorporation Act, in 1863 | Care and Support of the Sick | 250,000 | .. | 30,052.65 | 2,500 | 5,070 | 5,314.90 | 17,178.75 | 30,328.74 | 5,059 | 1 | .. | | 20 | *16 1 | 4 | 5 | .. | 47 | 3,878 15 | 10 | 112 | 5,614 | 188 | 94 | 75 | 1,978 | 125 | 200 | ... | 200 | 45 Nov. 30, 1896. |
| Hos[illegible] the Good Samaritan | McCulloh and Hoffman Sts. | General Incorporation Act, February 24, 1882 | Care and Treatment of the Sick | 18,000 | 300 | 7,970.05 | 1,500 | 3,380 | ..... | ... | 7,868 20 | 3,372.06 | .. | 1 | 34 | 4 | .. 1 | 23 | 7 | | 70 | 1,500 | . | .... | | 403 | . | | | . | . | . | June 7, 1897. |
| Mary[illegible] Homeopathic Hospital and Free Dispensary | No. 1122 N. Mount St. | General Incorporation Act, in 1893, and Special Act, 1896 | Medical and Surgical Work | 35,000 | ... | 6,819 50 | 1,000 | 3,380 | 3,519 50 | 1,386.05 | 7,945 73 | 3,231.32 | 1 | 1 | | 6 | 1 | 11 | 8 | .. | 20 | 1,240 | .. | 28 | 2,077 | 666 | . | .. | ... | . | 31 | 9 | 40 | 11 Dec. 31, 1896. |
| Pro[illegible] Hospital and Free Dispensary | No. 414 W. Biddle St. | General Incorporation Act, June 13, 1894 | Charitable | 3,500 | 126 | 4,378.78 | 1,500 | 3,380 | 1,079 75 | 47 | 4,139 38 | 1,799.13 | 1 | 1 | | 4 | . 1 | 9 | 1 | 4 | 21 | 629.50 | 12 | 15 | 160 | 123 | 123 | | ... | . | ... | 20 | 20 | 10 Dec. 31, 1896. |
| | Total | | | $1,063,966 66 | $2,062 | $129,822.51 | $25,500 | $53,375 | $13,920 47 | $41,989.77 | $158,051.24 | $58,757.88 | 8 | 6 | 56 | 115 | 46 27 | 115 | 81 | 18 | 502 | $30,345 30 | 62 | 791 | 27,691 | 8,947 | 1,911 | 661 | 1,455 | 629 | 878 | 183 | 1,061 | 518 |

*Sisters of religious orders. †Not including laboratories. ‡$650 borrowed. §Nurses in training.

# Table H.—Statistical Report of Dispensaries to which Appropriations are made by the City of Baltimore.

| NAME | LOCATION | WHEN INCORPORATED AND HOW | OBJECT AND CHARACTER OF WORK | Cost of Grounds and Building and Equipment | Annual Rental, when Building is Rented | Total Amount of Receipts Received in Last Fiscal Year | Annual Appropriation by City of Baltimore | Receipts from Ready Hour Fees (to be obtained from Board of Estimates) | Average Amounts Received from other than Public Sources | Total Expenses During Last Fiscal Year | Number of Persons Regularly Engaged in the Management of the Institution: Physicians | Druggists, Chemists or Dispensers | Others | Total | Total Amount Salaries and Wages in Last Fiscal Year | Number of Persons who Received no Compensation | Total Number of Prescriptions Prepared During Last Fiscal Year | How Many of these were Prescribed by Physicians other than Dispensary Staff? | Total Number of Separate Persons Treated at Dispensary During Last Fiscal Year | Total Number of Visits made to Dispensary During Last Fiscal Year | Total Number of Visits made to Their Homes | What Fees do You Charge per Patient for: Treatment, Drugs and Sur Bills | Bottles | Total Amount Received from Patients Fees During Last Fiscal Year | Total Receipts for Prescriptions Compounded During Last Fiscal Year | Total Cost of Compounding and Dispensing Drugs | Do You Keep a List of Sick Assisted by Society, Relievers or Charitable Institutions | How Records are Kept, Please Describe the System in Detail | What Means do you use, if any, to Ascertain Whether Persons Applying for Treatment or Drugs are Unable to pay for the same? | End of Fiscal Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] Maternity of Technology Grounds Dispensary | [illegible] W. Lexington St. | | General Assembly, 1895 | To furnish medical advice and medicines to indigent sick | $8,000 | | $1,300 | $1,800 | $421 88 | $1,950 | $3,964 02 | 3 | 1 | 1 | 6 | $1,753 | | 18,720 | 18,065 | 655 | 6,853 | | | | Sent | None | None | Nothing. | $450 83 | In salaries | Yes | Record of names, addresses, ages, color, disease and treatment | By questioning applicant, and in cases of doubt, outside sources | July 1 1897 |
| [illegible] Eastern Dispensary | Baltimore St. and [illegible] Ave | | General Assembly, 1818 | Charitable | 3,667 | | 2,980 | 1,800 | 124 88 | | 2,368 19 | 2 | | 1 | 3 | 1 209 60 | | 16,088 | 15,698 | 390 | 4,000 | 16,416 | 900 | 1,500 | None | None | Nothing. | 828 91 | Phys'ns comp'd | Yes | Name, residence, age, color, diagnosis and prescription | Personal interviewing | May 10, 1897. |
| [illegible] Dispensary of Baltimore City | [illegible] and 1926 Madison St. | | Gen'l Assembly, 1892, chapter 120 | To furnish medical assistance to sick and indigent in N. E. Balto | 2,600 | | 1,986 63 | 1,200 | 424 88 | 350 | 1,345 66 | 2 | 1 | 1 | 4 | 1,182 | | 22,135 | 21,744 | 991 | 4,683 | | 317 | 620 | None | None | Nothing. | 448 98 | $530 | Yes | | If in doubt, we apply to Charity Organization Society | Dec. 31, 1896 |
| [illegible] Dispensary of Baltimore City | 602 W. Hill St. | | Laws of Maryland, about 30 years ago | To furnish medical treatment to needy persons | 2,000 | Gr'd $15 | 2,164 86 | 1,000 | 424 88 | 1,115 96 | 1,127 | 2 | 1 | 1 | 4 | 1 515 | | 13,602 | 13,502 | 10 | 6,455 | | 67 | | None | None | Nothing. | 231 62 | 120 | Yes | Name, age, color, address and diagnosis | By inquiry and investigation | Dec. 31 1897 |
| [illegible] Mary Land Hospital Dispensary | [illegible] | | Under Hospital charter | To furnish medical treatment to needy persons | In hospital | | | 1,000 | | | | | | | | | | 13,822 | 25,422 | | | | | | None | 5 cents | Nothing. | 1,500 | 600 | Yes | Record, name address and general history in book | We accept their statement | Mar. 31, 1897 |
| [illegible] Dispensary | Calvert and S[illegible] Sts. | | Part of College of Physicians and Surgeons, 1872 and 1877 | To furnish medical services and dispense medicines to the poor | In college | | | 1,500 | | | 2 50 | 10 | 2 | 2 | 14 | 600 | 22 | 22,368 | Nearly all | | 10,500 | 25,128 | 284 | 1 | 200 | None | 5 cents | Nothing. | 2,200 | 300 | Yes | Name and address registered by physician in charge | By questioning, general appearance and dress | May 1 1897 |
| [illegible] of the Baltimore Medical College | Linden Ave. [illegible] Madison St. | | Part of College | Treatment and medicine for indigent sick and clinical instruction for students | In college. | | | 1,200 | | | 1,800 | 23 | | 4 | 27 | | | 16,615 | All | None | 8,566 | 24 000 | 2,000 | | None | None | Nothing. | 1,000 | 300 | Yes | Name, residence, age, color, nativity, family and personal history | Inquiry of patients and others | April 8, 1897 |
| [illegible] of University Hospital Dispensary | 21 to 29 N. Bre[illegible] | | General Law in 1884 | Treatment of indigent sick and poor of Baltimore | In college. | | | 1 000 | | | | 13 | 2 | 1 | 16 | 200 | | 12,000 | All | None | 3,819 | 7,000 | | 600 | None | 5 cents | Nothing. | | 100 | Yes | Name, address, diagnosis, dates of application and visits | Inquiry as to their ability to pay a fee | April 30, 1897 |
| [illegible] Hill Dispensary | 1114 W. Biddle St. | | Part of Hospital | Charitable | In hospital. | | | 800 | | | | | | | | | | | | None | | | | None | None | Nothing. | | | | | June 1 1897 |
| [illegible] opathic Hospital and Free Dispensary | 1125 N. Mount St. | | General Law 1892 and Special Act 1896 | | In hospital. | | | 800 | 424 88 | | | 8 | | | 8 | | | 7,811 | All | None | 2,837 | 7,811 | 700 | 2,000 | None | None | Nothing. | | | Yes | Dispensary record | Questioning of patients | Dec. 31, 1896 |
| [illegible] athic Free Dispensary | 1 W. Fayette St. | | General Law in 1896 | To treat and furnish medicines free to indigent sick | | 900 | | 900 | 422 88 | Notary | 800 | 5 | | 1 | 4 | 2 00 | 1 | 6,005 | All | None | 2,030 | 3,486 | | | None | None | Nothing. | 290 | | Yes | Name, address, age, sex, diagnosis and treatment | Inquiry as to ability of applicant or his family to pay | June 12, 1897 |
| [illegible] South's Homeopathic Med. College and Hospital | 16 W. Saratoga St. | | General Law in 1882 | To treat and furnish medicines free to indigent sick | In college | | 2,900 | 800 | 424 88 | 2,200 | | 20 | 2 | 1 | 23 | 875 | 22 | 9,174 | All | None | 3,338 | 9,174 | 900 | | None | None | $ [illegible] | 255 | 150 | Yes | Registered general and proper department, registered system | Inquiry of patient at time of application, credit and drawings | Oct. 1 1897 |
| [illegible] for Working Women and Girls of Balto. City | 16 W. Baltimore St. | | Gen'l Law in 1889, open 1892 | To give working women and girls an opportunity to consult women physicians | 2 50 | Gr'd $1 60 | 1,312 75 | 700 | | 612 75 | 1 65 | 6 | | 1 | 7 | 386 | 5 | 12,293 | 11 243 | 150 | | 5,636 | | 5,440 | | | | 450 00 | | 86 | Yes | Card system. Keeping name, address, nationality, occupation and clinic history | Card system. Keeping name, address, nationality, occupation and clinic history | Mar. 1 1897 |
| [illegible] Women's Medical College of Baltimore City | 1 Druid Hill Ave. and Hoffman St. | | Part of college | Treatment of the sick | | | | 900 | | | | | | | | | 17 | 7,147 | All | None | 3,416 | 7,000 | | 150 | None | 5 cents | About $5 | 900 17 | 120 | Yes | Name, color, date, and name of physician in charge, also entry in book for history of cases | Investigation | June 7, 1897 |
| [illegible] Baltimore Eye, Ear and Throat Charity Hospital | 725 W. Franklin St. | | Part of Hospital | Treatment of indigent poor suffering from diseases of the eye, ear and throat | In hospital. | | 600 | 500 | | | | | | | | | | | | | 2,195 | 11,074 | 12 | 50 | None | Charge | Nothing. | 137 72 | | Yes | Name, age, color, residence, occupation, diagnosis and history of case | Inquiry of patient | Dec. 31 1897 |
| [illegible] of Dental Surgery | [illegible] and [illegible] Sts. | | Special Act 1847 | Dentistry in all its branches | | 1 600 | | 500 | None | | | | | | 25 | | 9 | 12,748 | | | | | | None | None | Nothing. | | | No | | | |
| [illegible] of the University of Maryland | Greene St. near [illegible] St. | | General Assembly | Dental instruction | | | | 600 | | | | | | | 28 | | | 11,081 | | | | | | | | | | | | | |
| [illegible] and Asylum Association | Monument St. and [illegible] Ave. | | | Home for indigent poor and sick and to furnish dispensary treatment | In hospital. | | | 1 500 | 424 88 | | | | | | | | | 7 542 | | | 3,500 | 6,451 | | | | | | | | | |

[illegible] annually treated $555 at said quarter $1 per [illegible] for repairs and [illegible] ment [illegible] portions are made to the above [illegible] [illegible] ended Dec. 31st, 1896.

[illegible] Amount of cost of [illegible] appropriations — supplied by [illegible] [illegible] drug had in dispensary was not kept separate from hospital [illegible]

College and dispensary.

**Cannot tell as the drugs were drawn from the hospital drug room

[illegible] eleven months ending June 1, 1897.

*Approximately.

For six months ending July 1, 1897, including 3,600 teeth extracted, 3,600 teeth filled, 476 sets of teeth made and repaired, 28 surgical operations and 90 cases where medicine was administered to patients.

Total number of free operations from January 1, 1897, until August 1, 1897.

**There is a uniform fee of ten cents which patient is made to understand is for drugs or for surgical dressings.

Contributions by patients.

*Pharmacist's salary.

†Approximated, as the hospital supplies are drawn from the same [illegible]

††If person is qualified to receive treatment, assigned to proper department, where the full history of the case with diagnosis, treatment and number of visits, is kept.

**Each prescription is numbered, so that at each visit the examining physician discovers what patient has been taking and the treatment carried out.

†Thursday, cost of compounding.

**Orders of druggists — [illegible] mills, retail druggists — [illegible] Physician dispenses drugs [illegible] generally not [illegible] cases.

# DIRECTORY

OF

# All Officials and Employes

OF THE

# CITY GOVERNMENT

COMPRISING

MAYOR AND CITY COUNCILMEN, COMPTROLLER'S DEPARTMENT, CITY REGISTER'S OFFICE, COMMISSIONERS FOR OPENING STREETS, WATER DEPARTMENT, STREET CLEANING DEPARTMENT, FIRE COMMISSIONERS' DEPARTMENT, INSPECTOR OF BUILDINGS, INSPECTOR OF WEIGHTS AND MEASURES, INSPECTOR OF LONG AND DRY MEASURES, HARBOR BOARD, BAYVIEW ASYLUM, HEALTH DEPARTMENT, PARK COMMISSIONERS, SCHOOL BOARD (INCLUDING TEACHERS), COURTS, POLICE DEPARTMENT (INCLUDING PATROLMEN), MAGISTRATES, NOTARIES PUBLIC, ETC., ETC.

## 7,000 NAMES, RESIDENCES, SALARIES, ETC.

AUTHORIZED BY RESOLUTION SECOND BRANCH CITY COUNCIL, APRIL 25, 1898.

# List of All Persons Receiving Compensation from the City for Services Rendered, &c., as per Resolution Second Branch City Council, April 25th, 1898:

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## FIRST BRANCH CITY COUNCIL.

(Code of 1893, Art. 1, Sec. 17.)

Charles E. Wright, 206 S. Chester street, Councilman, First Ward, $1000 per annum.

Charles R. Lamm, 829 Eastern avenue, Councilman, Second Ward, $1000 per annum.

G. Stewart Johnson, 104 Jackson Place, Councilman, Third Ward, $1000 per annum.

Adolph Sauber, 827 E. Baltimore street, Councilman, Fourth Ward, $1000 per annum.

Bernard Dietz, 402 Colvin street, Councilman, Fifth Ward, $1000 per annum.

John T. Ochs, 536 N. Caroline street, Councilman, Sixth Ward, $1000 per annum.

George P. Reinhart, 1632 E. Preston street, Councilman, Seventh Ward, $1000 per annum.

James J. Kerns, 1305 E. Townsend street, Councilman, Eighth Ward, $1000 per annum.

Sherlock Swann, 903 N. Charles street, Councilman, Ninth Ward, $1000 per annum.

John A. Wright, 640 W. Saratoga street, Councilman, Tenth Ward, $1000 per annum.

Harry S. Cummings, 424 W. Biddle street, Councilman, Eleventh Ward, $1000 per annum.

Samuel Eccles, Jr., 1510 Madison avenue, Councilman, Twelfth Ward, $1000 per annum.

Benjamin F. Kelly, 135 S. Poppleton street, Councilman, Thirteenth Ward, $1000 per annum.

John B. Triebler, Jr., 1417 Hollins street, Councilman, Fourteenth Ward, $1000 per annum.

Wm. F. Broening, 113 E. Montgomery street, Councilman, Fifteenth Ward, $1000 per annum.

Geo. W. Warrenberger, 630 W. Lee street, Councilman, Sixteenth Ward, $1000 per annum.

A. H. Weaver, 1702 Light street, Councilman, Seventeenth Ward, $1000 per annum.

Andrew J. Utz, 1205 W. Cross street, Councilman, Eighteenth Ward, $1000 per annum.

Thomas Skinner, 1427 W. Lexington street, Councilman, Nineteenth Ward, $1000 per annum.

David L. Harrison, 1500 N. Mount street, Councilman, Twentieth Ward, $1000 per annum.

Geo. N. Numsen, Kate avenue, Councilman, Twenty-first Ward, $1000 per annum.

E. Clay Timanus, 731 Roland avenue, Councilman, Twenty-second Ward, $1000 per annum.

(Code of 1893, Art. 1, Sec. 33.)

Wm. C. Harden, 718 W. Lanvale street, Chief Clerk, Twentieth Ward, $1700 per annum.

John R. Morrison, 640 W. Franklin street, Assistant Clerk, Eleventh Ward, $1400 per annum.

John J. Goodmanson, 24 E. Henrietta street, Committee Clerk, Fifteenth Ward, $1400 per annum.

James Maddox, 610 N. Mount street, Sergeant-at-Arms, Nineteenth Ward, $1000 per annum.

J. C. Feldhaus, 1310 E. Monument street, Doorkeeper, Fifth Ward, $900 per annum.

Jas. E. G. Webb, 515 W. Lanvale street, Doorkeeper, Eleventh Ward, $900 per annum.

Wm. W. Harper, 245 Chestnut avenue, Page, Twenty-second Ward, $900 per annum.

## SECOND BRANCH CITY COUNCIL.

(Code of 1893, Art. 1, Sec. 18.)

James C. Jenkins, 922 S. Canton street, Councilman, First and Second Wards, $1000 per annum.

Charles W. Hatter, 129 Aisquith street, Councilman, Third and Fourth Wards, $1000 per annum.

Geo. Gebelein, 828 N. Chester street, Councilman, Fifth and Sixth Wards, $1000 per annum.

Michael J. Gaffney, 711 E. Preston street, Councilman, Seventh and Eighth Wards, $1000 per annum.

John F. Sommerlock, 906 Milton Place, Councilman, Ninth and Tenth Wards, $1000 per annum.

Albert H. Hock, 2116 Division street, Councilmin, Eleventh and Twelfth Wards, $1000 per annum.

Robert L. Stevens, 1027 Edmondson avenue, Councilman, Thirteenth and Fourteenth Wards, $1000 per annum.

Dr. Henry H. Imhofe, 526 Sharp street, Councilman, Fifteenth and Sixteenth Wards, $1000 per annum.

John W. Rumney, 777 W. Cross street, Councilman, Seventeenth and Eighteenth Wards, $1000 per annum.

John C. Simmering, 1536 Harlem avenue, Councilman, Nineteenth and Twentieth Wards, $1000 per annum.

Jacob Fizone, 1321 N. Fremont street, Councilman, Twenty-first and Twenty-second Wards, $1000 per annum.

(Code of 1893, Art. 4, Sec. 27.)

Merrill A. Teague, 105 W. Franklin street, Chief Clerk, Ninth Ward, $1700 per annum.

John J. Snyder, 1929 E. Lombard street, Assistant Clerk, Third Ward, $1400 per annum.

W. S. Harrington, Jr., 529 S. Charles street, Committee Clerk, Fifteenth Ward, $1400 per annum.

Valentine Foreman, 2113 Division street, Sergeant-at-Arms, Twelfth Ward, $1000 per annum.

John A. Keith, 751 McHenry street, Doorkeeper, Eighteenth Ward, $1000 per annum.

Frederick W. Winkelman, 2607 Fait avenue, Page, First Ward, $1000 per annum.

## MAYOR'S OFFICE.

Wm. T. Malster, 2001 Maryland avenue, Mayor, Twenty-second Ward, $5000 per annum. (Code of 1893, Art. 4, Sec. 10.)

E. H. Wardwell, 2215 Oak street, Mayor's Secretary, Twenty-second Ward, $2300 per annum. (Code of 1893, Art. 1, Secs. 7 and 8.)

Geo. W. Johnson, 40 S. Fremont street, Mayor's Clerk, Thirteenth Ward, $1200 per annum. (Code of 1893, Art. 1, Secs. 7 and 8.)

Samuel E. Young, 148 Rogers avenue, Mayor's Messenger, Fourth Ward, $900 per annum. (Code of 1893, Art. 10, Sec. 2.)

Edward E. Harden, 629 Cumberland street, Assistant Clerk, Twelfth Ward, $100 per month (temporary.)

## COMPTROLLER'S OFFICE.

Chas. D. Fenhagen, 109 N. Broadway, Comptroller, Third Ward, $3000 per annum. (Code of 1893, page 532.)

Julius W. Freeman, 1533 Linden avenue, Deputy Comptroller, Twelfth Ward, $1800 per annum. (Code of 1893, page 538.)

Henry C. Hines, 410 E. Chase street, Chief Clerk, Eighth Ward, $1400 per annum. (Ord. 95-96, page 231.)

H. L. P. Woolf, 1701 Harlem avenue, Assistant Clerk, Nineteenth Ward, $1200 per annume. (Ord. 95-96, page 231.)

S. R. Payne, 315 N. Greene street, Auditor, Tenth Ward, $1200 per annum. (Ord. 95-96, page 232.)

A. M. Collins, 225 S. Washington street, Auditor, First Ward, $1200 per annum. (Ord. 95-96, page 232.)

Wm. J. Robinson, 1314 E. Fayette street, License Detective, Fourth Ward, $1000 per annum. (Code of 1893, page 777.)

Wm. M. Jordan, 1814 W. Fayette street, Stenographer, Nineteenth Ward, $600 per annum. (Code of 1893, page 538.)

## CITY REGISTER'S OFFICE.

J. Frank Supplee, 1625 Eutaw Place, Register, Twelfth Ward, $3300 per annum. (Code of 1893, Sec. 31, Art. 11.)

J. Sewell Thomas, 2715 St. Paul street, Deputy Register, Twenty-second Ward, $1800 per annum. (Code of 1893, Sec. 31, Art. 11.)

Jos. P. Reynolds, 2212 McCulloh street, Chief Clerk, Twelfth Ward, $1400 per annum. (Code of 1893, Sec. 30, Art. 11.)

Milburn Soper, 839 W. Saratoga street, Stock Clerk, Tenth Ward, $1400 per annum. (Code of 1893, Sec. 30, Art. 11.)

Harry Lieb, 2204 Bank street, Assistant Clerk, First Ward, $1200 per annum. (Code of 1893, Sec. 30, Art. 11.)

Paul Needing, 1126 Nanticoke street, Assistant Clerk, Eighteenth Ward, $900 per annum. (Code of 1893, Sec. 30, Art. 11.)

## COMMISSIONERS FOR OPENING STREETS.

Jas. Glen, 2518 Pennsylvania avenue, Commissioner, Twenty-first Ward, $1800 per annum. (Code of 1893, Sec. 22, Art. 48.)

W. H. Green, 1600 Mt. Royal avenue, Commissioner, Twelfth Ward, $1800 per annum. (Code of 1893, Sec. 22, Art. 48.)

A. A. Moreland, 1617 Ashland avenue, Commissioner, Seventh Ward, $1800 per annum. (Code of 1893, Sec. 22, Art. 48.)

H. H. Taylor, 2225 St. Paul street, Commissioner, Twenty-second Ward, $1800 per annum. (Have until September 10 to complete work.)

Louis Hoffman, 1412 E. Oliver street, Commissioner, Seventh Ward, $1800 per annum. (Have until September 10 to complete work.)

Carl Casey, 19 W. Hill street, Clerk, Fifteenth Ward, $1800 per annum. (Code of 1893, Sec. 22, Art. 48.)

## WATER REGISTRAR'S DEPARTMENT.

(Water Board makes all appointments of its employes, and fixes the compensation. Code of 1893, page 1060.)

Henry C. Naill, 223 Courtland street, Water Registrar, Ninth Ward, $2200 per annum.

Wm. Edw. Thomsen, 208 Laurens street, Clerk to Board, Twelfth Ward, $1300 per annum.

Frank R. Eldridge, 2122 E. Hoffman street, Cashier, Sixth Ward, $1400 per annum.

Otis C. Brownley, 1218 E. Preston street, General Bookkeeper, Seventh Ward, $1400 per annum.

J. H. R. Nicholson, 1617 John street, Ledger Clerk, Twelfth Ward, $1200 per annum.

Harry L. Protzman, 1431 Myrtle avenue, Ledger Clerk, Twentieth Ward, $1200 per annum.

Claud L. Wooley, 413 Robert street, Ledger Clerk, Twelfth Ward, $1200 per annum.

Samuel H. Suter, 1059 W. Fayette street, Ledger Clerk, Fourteenth Ward, $1200 per annum.

Jos. W. Whiteford, 2502 N. Calvert street, Ledger Clerk, Twenty-second Ward, $1200 per annum.

Wm. R. Tyson, 656 W. Baltimore street, Ledger Clerk, Thirteenth Ward, $1200 per annum.

D. Howard Tuxworth, 1933 Druid Hill avenue, Ledger Clerk, Twelfth Ward, $1200 per annum.

M. J. Bucksbaum, 573 Presstman street, Ledger Clerk, Twelfth Ward, $1200 per annum.

Harry Armstrong, 653 W. Barre street, Special Inspector, Sixteenth Ward, $1200 per annum.

J. Q. A. Sands, 1929 Park avenue, Chief Inspector, Twenty-first Ward, $1600 per annum.

W. G. Jerrentrupp, 218 E. Cross street, Bill Distributor, Fifteenth Ward, $1000 per annum.

Chas. B. Henderson, 1148 York road, Bill Distributor, Twenty-second Ward, $1000 per annum.

Wm. Haughey, 713 Cumberland street, Bill Distributor, Twentieth Ward, $1000 per annum.

L. D. Hessnauer, 615 S. Luzerne street, Bill Distributor, First Ward, $1000 per annum.

S. J. Bunting, 1341 N. Eden street, Bill Distributor, Seventh Ward, $1000 per annum.

Edw. S. Davis, 1321 N. Caroline street, Bill Distributor, Seventh Ward, $1000 per annum.

Oscar C. Jennings, 1513 Clifton street, Bill Distributor, Twenty-first Ward, $1000 per annum.

Wm. F. Herring, 1125 N. Mount street, Bill Distributor, Nineteenth Ward, $1000 per annum.

S. J. Schenkel, 637 S. Paca street, Meter Clerk, Sixteenth Ward, $1200 per annum.

J. Woodfin Minifie, 1320 W. Lanvale street, New Supply Clerk, Twentieth Ward, $1200 per annum.

## WATER ENGINEER'S DEPARTMENT.

(Water Board makes all appointments of its employes, and fixes the compensation. Code of 1893, page 1060.)

Wm. L. Kenly, Lake Montebello, Chief Engineer, Twenty-second Ward, $4000 per annum.

Samuel G. Brosius, 3008 Walbrook avenue, Consulting Engineer, Twenty-first Ward, $2500 per annum.

A. M. Quick, 2518 N. Charles street, Assistant Engineer, Twenty-second Ward, $2000 per annum.

R. L. Clemmitt, 2234 Druid Hill avenue, Draughtsman, Twelfth Ward, $1400 per annum.

Jas. R. Read, 1303 Harlem avenue, Secretary, Nineteenth Ward, $1200 per annum.

J. G. Brittain, West Arlington, Civil Engineer, Twenty-first Ward, $1200 per annum.

W. J. West, 201 N. Carey street, Draughtsman, Nineteenth Ward, $900 per annum.

R. N. Hanna, 2305 N. Charles street, Inspector, Twenty-second Ward, $960 per annum.

F. G. Sweet, 1022 Milton Place, Clerk, Fourteenth Ward, $900 per annum.

O. F. Lackey, 1104 N. Charles street, Draughtsman, Eighth Ward, $720 per annum.

Thos. P. Bolgiano, 1538 Newington Place, Clerk, Twentieth Ward, $600 per annum.

William Hill, 411 Little Monument street, Messenger, Eleventh Ward, $600 per annum.

Chas. Krause, 602 Chestnut Hill, Draughtsman, Twenty-second Ward, $1200 per annum.

Peter Vietsch, 910 Frederick avenue, Ext. Clerk, Twenty-first Ward, $780 per annum.

L. H. Durling, 1804 Linden avenue, Chief Clerk, Twelfth Ward, $1500 per annum.

*Water Engineer's Department.—Continued.*

J. W. Hoffman, 2223 St. Paul street, Paymaster, Twenty-second Ward, $1500 per annum.

John McCabe, 2030 Wilkins avenue, Clerk, Eighteenth Ward, $900 per annum.

C. L. Gambrill, 305 W. Hoffman street, Clerk, Twelfth Ward, $840 per annum.

John M. Torney, 709 N. Calvert street, Clerk, Ninth Ward, $780 per annum.

J. P. Huppman, 822 N. Washington street, Clerk, Sixth Ward, $1020 per annum.

Geo. R. Truelove, 1126 Ensor street, Superintendent, Seventh Ward, $1500 per annum.

C. H. Richardson, Jr., 753 W. Fayette street, Clerk, Thirteenth Ward, $900 per annum.

J. H. S. Davis, 1011 W. North avenue, Clerk, Twelfth Ward, $660 per annum.

G. E. Christ, 2136 Hollins street, Meter Inspector, Eighteenth Ward, $1000 per annum.

M. Gorman, 425 E. Lanvale street, Foreman, Eighth Ward, $1000 per annum.

E. F. Davis, 33 E. Hamburg street, Foreman, Fifteenth Ward, $1080 per annum.

M. P. Moison, 618 N. Calvert street, Foreman, Ninth Ward, $1000 per annum.

T. Reynolds, 1415 N. Gay street, Foreman, Sixth Ward, $660 per annum.

Jesse Essinger, 2102 Wilkens avenue, Foreman, Eighteenth Ward, $840 per annum.

T. Hart, 1022 Clifton Place, Foreman, Eighth Ward, $840 per annum.

T. Maskell, 1831 N. Castle street, Foreman, Seventh Ward, $840 per annum.

Jas. Joyce, 917 Hillen street, Foreman, Fourth Ward, $840 per annum.

*Water Engineer's Department.—Continued.*

S. Herline, 1904 York road, Foreman, Twenty-second Ward, $840 per annum.

Thos. E. Cockerell, 1720 Fairmount avenue, Foreman, Sixth Ward, $840 per annum.

G. W. Bumgarner, 1609 E. Eager street, Foreman, Seventh Ward, $660 per annum.

Geo. P. Shakespear, 7 E. Montgomery street, Storeroom Keeper, Fifteenth Ward, $600 per annum.

D. C. Bond, 132 N. Broadway, Clerk, Third Ward, $900 per annum.

W. H. Lindeman, 612 S. Bond street, Clerk, Second Ward, $720 per annum.

Herman Zaph, 111 S. High street, Clerk, Fourth Ward, $720 per annum.

Chas. E. Smith, 1927 E. Lombard street, Clerk, Third Ward, $720 per annum.

E. G. Rost, 814 Harlem avenue, Superintendent, Twentieth Ward, $1500 per annum.

M. C. Barclay, Druid Hill Park, Engineer of Pumps, Twenty-first Ward, $1050 per annum.

W. H. Coyle, 2130 Bolton street, Assistant Engineer of Pumps, Twenty-first Ward, $1050 per annum.

Otto Boettger, 1035 Hopkins avenue, Assistant Engineer of Pumps, Seventh Ward, $1050 per annum.

George R. Fox, 2112 Oak street, Storekeeper, Twenty-second Ward, $780 per annum.

John League, 1317 N. Washington street, Oiler E. P. Station, Sixth Ward, $660 per annum.

Pat Quinn, 1326 Wilcox street, Oiler E. P. Station, Seventh Ward, $660 per annum.

Thos. H. Gibson, 820 Bradley street, Fireman E. P. Station, Eleventh Ward, $660 per annum.

F. Byrne, 212 Jackson street, Fireman E. P. Station, Twenty-second Ward, $660 per annum.

*Water Engineer's Department.—Continued.*

A. Matyouisi, 1629 Barnes street, Fireman E. P. Station, Seventh Ward, $660 per annum.

N. S. Montgomery, 206 Eager Place, Watchman, Sixth Ward, $660 per annum.

Chas. H. Kirkwood, 337 E. Hamburg street, Foreman, Fifteenth Ward, $750 per annum.

E. C. Scofield, 854 W. Baltimore street, Clerk, Thirteenth Ward, $720 per annum.

J. McNally, 1315 N. Eden street, Hostler, Seventh Ward, $600 per annum.

John Slamaker, 1535 Retreat street, Watchman, Twenty-first Ward, $600 per annum.

A. R. Todd, 1718 N. Fulton avenue, Pay Inspector, Twentieth Ward, $900 per annum.

W. M. Rea, 2437 N. Calvert street, Pay Inspector, Twenty-second Ward, $900 per annum.

Harry C. Clocker, 1919 E. Preston street, Pay Inspector, Sixth Ward, $900 per annum.

Wm. Benthall, 36 W. Twenty-fifth street, Engineer and Superintendent, Twenty-second Ward, $2000 per annum.

Andrew Buehler, Lake Montebello, Foreman, Twenty-second Ward, $600 per annum.

Philip Kelly, 1707 N. Bond street, Watchman, Sixth Ward, $600 per annum.

John Boone, Lake Roland, Keeper, County, $720 per annum.

George Kelly, Lake Clifton, Keeper, Twenty-second Ward, $720 per annum.

J. E. Gibson, Mt. Royal, Keeper, Twenty-first Ward, $480 per annum.

John Van Horn, Hampden, Keeper, Twenty-second Ward, $720 per annum.

*Water Engineer's Department.—Continued.*

M. Dapprick, Loch Raven, Gatekeeper, County, $720 per annum.

T. Talbott, Loch Raven, Laborer, County, $300 per annum.

Wm. Meyers, Homestead, Laborer, Twenty-second Ward, $1.66⅔ per day.

H. Ritmiller, Harford road, Laborer, Twenty-second Ward, $1.66⅔ per day.

Geo. Carrick, Loch Raven, Laborer, County, $1.50 per day.

Chas. Carrick, Loch Raven, Laborer, County, $1.50 per day.

R. B. Cornthwait, Loch Raven, Laborer, County, $1.50 per day.

E. M. Medairy, Loch Raven, Laborer, County, $1.50 per day.

B. Krotee, 1 Mine Bank lane, Laborer, Twenty-second Ward, $1.66⅔ per day.

J. Ried, Homestead, Laborer, Twenty-second Ward, $1.66⅔ per day.

John Devoy, Gullford, Laborer, County, $1.66⅔ per day.

H. Hildt, 1528 W. North avenue, Laborer, Twenty-first Ward, $1.66⅔ per day.

John Arnold, 158 Cedar avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

Jas. Likes, 412 Merryman lane, Laborer, Twenty-second Ward, $1.66⅔ per day.

J. Barnes, 201 Carroll street, Laborer, Twenty-first Ward, $1.66⅔ per day.

J. M. Gilleland, 2213 Pennsylvania avenue, Rammer, Twelfth Ward, $2 per day.

Chas. Bowen, Hickory avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

John Kerr, Falls road, Laborer, Twenty-second Ward, $1.66⅔ per day.

E. T. Caltrider, Falls road, Horse and Cart, Twenty-second Ward, $2.25 per day.

B. Torbitt, Loch Raven, Laborer, County, $1.50 per day.

H. Corbin, Loch Raven, Laborer, County, $1.50 per day.

C. Dukehart, Loch Raven, Laborer, County, $1.50 per day.

J. Treadway, Loch Raven, Laborer, County, $1.50 per day.

G. Holland, Loch Raven, Laborer, County, $1.50 per day.

J. Finn, Loch Raven, Laborer, County, $1.50 per day.

D. Grace, Loch Raven, Laborer, County, $1.50 per day.

C. Simms, Loch Raven, Laborer, County, $1.50 per day.

A. Simms, Loch Raven, Laborer, County, $1.50 per day.

G. Popp, Loch Raven, Laborer, County, $1.50 per day.

L. R. Barker, 1241 N. Broadway, Foreman, Seventh Ward, $3 per day.

P. Welsh, 2002 Fairmount avenue, Foreman, Sixth Ward, $2 per day.

Wm. Hawkins, 927 N. Eutaw street, Horse and Cart, Eleventh Ward, $2.40 per day.

George Ibex, 943 N. Castle street, Laborer, Sixth Ward, $1.66⅔ per day

C. H. Heesh, 1334 N. Eden street, Blacksmith, Seventh Ward, $2.50 per day.

Fred. Bowers, 808 S. Fremont street, Foreman, Eighteenth Ward, $2 per day.

David Bruce, 711 N. Carey street, Messenger, Nineteenth Ward, $1.66⅔ per day.

Alex. Hooper, 247 N. Arlington avenue, Laborer, Fourteenth Ward, $1.66⅔ per day.

Thomas Nugent, 134 Aisquith street, Foreman, Eighth Ward, $2 per day.

*Water Engineer's Department.—Continued.*

Robert Davis, 1701 Ensor street, Foreman, Eighth Ward, $2 per day.

Michael Sheridan, 503 N. Exeter street, Laborer, Fifth Ward, $1.66⅔ per day.

Wm. Dahle, 1107 Greenmount avenue, Foreman, Eighth Ward, $2 per day.

Barney Mulhall, 1119 Proctor street, Laborer, Eighth Ward, $1.66⅔ per day.

James Cochran, 1315 Woodyear street, Assistant Foreman, Twentieth Ward, $2 per day.

Thos. O'Donnell, 325 S. Duncan street, Laborer, First Ward, $1.66⅔ per day.

F. Snowden, 31 Burckhead street, Engineer, Seventeenth Ward, $2.50 per day.

Jas. Eccles, 827 Willis street, Engineer, Eighth Ward, $2.50 per day.

Edw. McKewen, 426 Rogers avenue, Laborer, Fifth Ward, $1.66⅔ per day.

A. H. Brown, 927 N. Eutaw street, Horse and Cart, Eleventh Ward, $2.40 per day.

Wm. Murray, 1102 E. Madison street, Laborer, Fifth Ward, $1.66⅔ per day.

M. Holland, 400 E. Monument street, Laborer, Fifth Ward, $1.66⅔ per day.

Wm. Welsh, Jr., 1816 W. Fayette street, Horse and Cart, Nineteenth Ward, $2.40 per day.

George Freeman, 2003 Oakley street, Laborer, Nineteenth Ward, $1.66⅔ per day.

S. Davis, 2002 Fairmount avenue, Laborer, Sixth Ward, $1.66⅔ per day.

J. McGaw, 1605 Holbrook avenue, Laborer, Eighth Ward, $1.66⅔ per day.

M. Burke, 916 Lemon street, Laborer, Thirteenth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Jas. Casserly, 1122 Proctor street, Laborer, Eighth Ward, $1.66⅔ per day.

Wm. Barnes, 109 S. Payson street, Horse and Cart, Eighteenth Ward, $2.40 per day.

Wm. Tooey, 836 Hillen street, Laborer, Fifth Ward, $1.66⅔ per day.

Albert Parrish, 326 Elm avenue, Paver, Twenty-second Ward, $2.50 per day.

Patrick Madden No. 1, 415 Rogers avenue, Laborer, Fifth Ward, $1.66⅔ per day.

Martin Cusich, 226 N. Arlington avenue, Laborer, Fourteenth Ward, $1.66⅔ per day.

J. Murray, 1615 Ensor street, Laborer, Eighth Ward, $1.66⅔ per day.

Chas. Morrison, 635 S. Charles street, Foreman, Seventeenth Ward, $2 per day.

Patrick Dorsey, 739 Ramsay street, Laborer, Eighteenth Ward, $1.66⅔ per day.

Wm. Dorsey, 1703 N. Spring street, Laborer, Seventh Ward, $1.66⅔ per day.

John Scally, 1126 Ensor street, Laborer, Seventh Ward, $1.66⅔ per day.

Geo. B. Brown, 632 Raborg street, Horse and Cart, Thirteenth Ward, $2.40 per day.

M. Cosgrove, 1335 Ramsay street, Laborer, Eighteenth Ward, $1.66⅔ per day.

John Caulfield, 25 W. Oliver street, Laborer, Eighth Ward, $1.66⅔ per day.

Thomas Barnett, 552 Baker street, Laborer, Twelfth Ward, $1.66⅔ per day.

J. O'Connor, 920 Stirling street, Laborer, Fifth Ward, $1.66⅔ per day.

A. C. Stewart, 2419 Oak street, Laborer, Twenty-second Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Reuben Summers, 1217 Smith street, Laborer, Twentieth Ward, $1.66⅔ per day.

John Kearney, 48 York street, Laborer, Fifteenth Ward, $1.66⅔ per day.

Jas. Gomley, 1324 Columbia avenue, Laborer, Eighteenth Ward, $1.66⅔ per day.

Nathaniel Smith, 1526 Latrobe street, Laborer, Eighth Ward, $1.66⅔ per day.

Patrick Gaynor, 917 Lemon street, Laborer, Thirteenth Ward, $1.66⅔ per day.

Patrick Berry, 2023 Bank street, Laborer, First Ward, $1.66⅔ per day.

B. Naughton, 415 S. Chapel street, Laborer, First Ward, $1.66⅔ per day.

Michael McHale, 1323 Greenmount avenue, Laborer, Eighth Ward, $1.66⅔ per day.

John Kelbaugh, 229 Carroll street, Laborer, Twenty-second Ward, $1.66⅔ per day.

Benj. Davis, 2706 Bennard avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

J. W. C. Seitz, 101 E. Twenty-second street, Laborer, Twenty-second Ward, $1.66⅔ per day.

Lewis West, 1016 Whatcoat street, Laborer, Twentieth Ward, $1.66⅔ per day.

Joseph Taylor, 602 Hargrove alley, Laborer, Twelfth Ward, $1.66⅔ per day.

M. H. Bowers, 542 W. Barre street, Foreman, Sixteenth Ward, $2 per day.

P. Torbitt, Loch Raven, Laborer, County, $1.50 per day.

Frank Monohan, 807 E. Chase street, Horse and Cart, Eighth Ward, $2.40 per day.

Edw. Meehan, 31 Stone Hill, Foreman, Twenty-second Ward, $2.40 per day.

*Water Engineer's Department.—Continued.*

Harvey Mathias, 226 Sycamore avenue, Laborer, Twenty-first Ward, $1.66⅔ per day.

Chas. E. Benton, 331 S. Stricker street, Laborer, Eighteenth Ward, $1.66⅔ per day.

John W. Ruff, 219 W. Biddle street, Laborer, Eighth Ward, $1.66⅔ per day.

George Hopkins, 817 Leadenhall street, Laborer, Sixteenth Ward, $1.66⅔ per day.

Albert Buchta, 936 N. Bond street, Horse and Cart, Seventh Ward, $2.40 per day.

Thomas Wetherall, 933 N. Boyd street, Laborer, Thirteenth Ward, $1.66⅔ per day.

Wm. Ricks, 3102 Cedar avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

Arthur Mullin, 1119 Wilcox street, Laborer, Seventh Ward, $1.66⅔ per day.

T. H. Knight, 1630 Aisquith street, Laborer, Eighth Ward, $1.66⅔ per day.

Patrick Lee, 50 York street, Laborer, Fifteenth Ward, $1.66⅔ per day.

Frank Fisher, 918 Greenmount avenue, Horse and Cart, Eighth Ward, $2.40 per day.

Joseph Kelly, 2022 Bank street, Laborer, First Ward, $1.66⅔ per day.

Wm. Edwards, 16 Stockton street, Laborer, Nineteenth Ward, $1.66⅔ per day.

G. Schwindell, 1612 St. Joseph street, Laborer, Seventh Ward, $1.66⅔ per day.

J. C. Parker, 935 W. Saratoga street, Laborer, Thirteenth Ward, $1.66⅔ per day.

Wm. G. Thompson, 1019 Arlington avenue, Laborer, Twentieth Ward, $1.66⅔ per day.

S. Hergemoreder, 2124 Wilhelm street, Laborer, Eighteenth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Thomas Senner, 534 Hunt court, Laborer, First Ward, $1.66⅔ per day.

Alex. Thompson, 3 S. Stricker street, Laborer, Nineteenth Ward, $1.66⅔ per day.

Moses Watkins, 533 Wilson court, Laborer, Eleventh Ward, $1.66⅔ per day.

Martin Joyce, 535 Carlton street, Laborer, Fourteenth Ward, $1.66⅔ per day.

G. C. Miller, 516 S. Wolfe street, Laborer, Second Ward, $1.66⅔ per day.

Thomas Baxter, 936 Brevard street, Laborer, Eighth Ward, $1.66⅔ per day.

J. B. Kerns, 2838 W. Lanvale street, Laborer, Twenty-first Ward, $1.66⅔ per day.

Jas. Burns, 409 Greenmount avenue, Laborer, Eighth Ward, $1.66⅔ per day.

Thos. McDonald, 816 Webster street, Horse and Cart, Eighth Ward, $2.40 per day.

Wm. Sheehy, 152 Old York road, Horse and Cart, Twenty-second Ward, $2.40 per day.

Frank Murry, 128 Hughes street, Laborer, Fifteenth Ward, $1.66⅔ per day.

Thomas Tracy, 809 Hampden avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

Stephen Cenroy, 414 S. Chester street, Laborer, First Ward, $1.66⅔ per day.

D. C. Woodland, 614 Chappell street, Laborer, Twelfth Ward, $1.66⅔ per day.

E. Lambert, 2328 E. Monument street, Laborer, Sixth Ward, $1.66⅔ per day.

Robert Manning, Mt. Royal Hill, Laborer, Twenty-first Ward, $1.66⅔ per day.

M. Lavan, 705 E. Biddle street, Laborer, Eighth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Patrick Riley, 318 Eden street, Laborer, Sixth Ward, $1.66⅔ per day.

Jas. Moan, 1715 Ensor street, Horse and Wagon, Eighth Ward, $2.75 per day.

Thomas Kelly, 1114 Hanover street, Laborer, Seventeenth Ward, $1.66⅔ per day.

Jeremiah Fox, 1827 Harford avenue, Laborer, Seventh Ward, $1.66⅔ per day.

Charles Schueler, 1032 E. Lombard street, Horse and Cart, Fourth Ward, $2.40 per day.

N. Stiles, 111 W. Hill street, Laborer, Fifteenth Ward, $1.66⅔ per day.

Jas. D. Bounds, 405 McAllister court, Laborer, Eighth Ward, $1.66⅔ per day.

H. C. Hawkins, 109 Baldwin street, Horse and Cart, Twenty-first Ward, $2.40 per day.

Frank Fallon, 1042 Homewood avenue, Horse and Cart, Eighth Ward, $2.40 per day.

Geo. Derricks, 327 W. Preston street, Horse and Cart, Eleventh Ward, $2.40 per day.

Henry Klaymer, 349 W. Forrest street, Laborer, Eighth Ward, $1.66⅔ per day.

Chas. Whalen, 331 Moreling avenue, Laborer, Twenty-first Ward, $1.66⅔ per day.

John C. Dorsey, 1842 Duncan alley, Laborer, Sixth Ward, $1.66⅔ per day.

Wm. Graham, 1420 N. Fulton avenue, Laborer, Twentieth Ward, $1.66⅔ per day.

Wm. T. Hall, 822 Parrish alley, Laborer, Twentieth Ward, $1.66⅔ per day.

Wm. Fitzpatrick, 440 N. Front street, Laborer, Eighth Ward, $1.66⅔ per day.

Peter D. Della, 1318 Hanover street, Horse and Cart, Seventeenth Ward, $2.40 per day.

*Water Engineer's Department.—Continued.*

J. J. Callahan, 809 Harford avenue, Laborer, Eighth Ward, $1.66⅔ per day.

Jno. Hennessey, 2001 Canton avenue, Laborer, Second Ward, $1.66⅔ per day.

Michael Curtain, 2012 E. Biddle street, Laborer, Sixth Ward, $1.66⅔ per day.

J. W. House, 921 N. Eutaw street, Horse and Cart, Eleventh Ward, $2.40 per day.

Chas. Blucher, 35 S. Schroeder street, Laborer, Thirteenth Ward, $1.66⅔ per day.

Luke Madden, 113 Hollin alley, Laborer, Fourteenth Ward, $1.66⅔ per day.

Thomas Campbell, 914 E. Preston street, Horse and Wagon, Eighth Ward, $2.75 per day.

Geo. Salisbury, 1512 N. Dallas street, Horse and Cart, Seventh Ward, $2.40 per day.

Daniel Hayden, 1306 Hunter alley, Assistant Foreman, Eighth Ward, $2 per day.

Wm. Donnelly, 929 Stirling street, Horse and Cart, Eighth Ward, $2.40 per day.

Edw. Donohue, 1034 Homewood avenue, Horse and Cart, Eighth Ward, $2.40 per day.

M. Dillon, 610 W. Lafayette avenue, Laborer, Twentieth Ward, $1.66⅔ per day.

Michael Shartel, 1825 N. Dallas street, Laborer, Seventh Ward, $1.66⅔ per day.

John Wallace, 311 S. Castle street, Laborer, Second Ward, $1.66⅔ per day.

Walter Johnson 569 Union street, Laborer, Eleventh Ward, $1.66⅔ per day.

John Kelly, 1114 Hanover street, Laborer, Seventeenth Ward, $1.66⅔ per day.

R. Ring, 1408 N. Collington avenue, Laborer, Sixth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

J. McGhee, 152 Dolphin street, Laborer, Twelfth Ward, $1.66⅔ per day.

Jas. Snyder, 1439 N. Gay street, Paver, Sixth Ward, $2.75 per day.

Michael Tarpy, 1100 Wilcox street, Laborer, Seventh Ward, $1.66⅔ per day.

Jas. Cabell, 1405 Cairo street, Laborer, Nineteenth Ward, $1.66⅔ per day.

R. J. Colbert, 1339 Wirt street, Laborer, Eighth Ward, $1.66⅔ per day.

Michael Glenor, 321 S. Duncan alley, Laborer, First Ward, $1.66⅔ per day.

Chas. Patterson, 305 Bruce street, Laborer, Nineteenth Ward, $1.66⅔ per day.

H. T. Solomon, 902 Somerset street, Horse and Wagon, Eighth Ward, $2.75 per day.

Henry Sanft, 2026 E. Chase street, Laborer, Sixth Ward, $1.66⅔ per day.

Peter Joyce, 917 Hillen street, Laborer, Fourth Ward, $1.66⅔ per day.

Patrick O'Melia, 216 S. Wolfe street, Laborer, First Ward, $1.66⅔ per day.

A. Kreiner, 1813 N. Dallas street, Laborer, Seventh Ward, $1.66⅔ per day.

Thos. Flanagan, 2139 Fairmount avenue, Laborer, Sixth Ward, $1.66⅔ per day.

Stephen Scales, 1919 Sherwood avenue, Horse and Cart, Twenty-second Ward, $2.40 per day.

Chas. Stemmel, 2620 Florence street, Laborer, Twenty-first Ward, $1.66⅔ per day.

Jos. Zimmerman, 424 N. High street, Laborer, Fourth Ward, $1.66⅔ per day.

Wm. McGain, 1322 Hillman street, Laborer, Eighth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

M. Fay, 1025 Wilcox street, Laborer, Eighth Ward, $1.66⅔ per day.

Harvey Holmes, 516 Vincent street, Laborer, Nineteenth Ward, $1.66⅔ per day.

Geo. Garrison, 610 Caroline street, Laborer, Eleventh Ward, $1.66⅔ per day.

E. M. Risler, 1008 Hillen street, Laborer, Eighth Ward, $1.66⅔ per day.

Patrick Madden No. 2, 444 E. Monument street, Laborer, Eighth Ward, $1.66⅔ per day.

Jas. Allen, 7 Little Church street, Laborer, Seventeenth Ward, $1.66⅔ per day.

Albert Smith, 1320 E. Lanvale street, Horse and Cart, Eighth Ward, $2.40 per day.

Michael J. Gill, 803 Hillen street, Laborer, Fourth Ward, $1.66⅔ per day.

John Jacobs, 821 S. Eutaw street, Laborer, Sixteenth Ward, $1.66⅔ per day.

Frank West, 810 Vincent alley, Laborer, Nineteenth Ward, $1.66⅔ per day.

James Burns No. 2, 518 N. High street, Laborer, Fifth Ward, $1.66⅔ per day.

John Lindeman, 11 N. Durham street, Laborer, Third Ward, $1.66⅔ per day.

Thomas McCormack, 804 Post street, Laborer, First Ward, $1.66⅔ per day.

John Roberts, 220 W. Barre street, Laborer, Fifteenth Ward, $1.66⅔ per day.

Matthew Cavanaugh, 432 Pinkney Place, Laborer, Eighth Ward, $1.66⅔ per day.

T. McNeal, 14 Marion street, Laborer, Twenty-first Ward, $1.66⅔ per day.

Wm. H. Donahue, 932 E. Chase street, Laborer, Seventh Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Chas. C. Nash, 1305 Etting street, Horse and Cart, Twelfth Ward, $2.40 per day.

Wm. Connor, 909 McDonough street, Laborer, Seventh Ward, $1.66⅔ per day.

Saml. Hatch, 702 N. Gay street, Horse and Cart, Seventh Ward, $2.40 per day.

Thos. Reynolds, 1046 Valley street, Horse and Cart, Eighth Ward, $2.40 per day.

Richard Steward, 3 Andrews avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

Chas. E. Dawalt, 1043 William street, Laborer, Fifteenth Ward, $1.66⅔ per day.

B. Tierney, 2027 Eastern avenue, Laborer, Second Ward, $1.66⅔ per day.

John W. Holmes, 2641 Hunter's alley, Horse and Cart, Twenty-second Ward, $2.40 per day.

Thomas Fahey, 100 Dolphin street, Laborer, Twelfth Ward, $1.66⅔ per day.

Thos. H. Dryden, 1218 Harford avenue, Horse and Cart, Eighth Ward, $2.40 per day.

John McTighe, 1109 Proctor street, Laborer, Eighth Ward, $1.66⅔ per day.

Danl. Lanahan, 107 E. Heath street, Laborer, Seventeenth Ward, $1.66⅔ per day.

Thos. Walsh, Sr., 1816 W. Fayette street, Horse and Cart, Nineteenth Ward, $2.40 per day.

Robert E. Burgan, 9 Gorsuch avenue, Laborer, Twenty-second avenue, $1.66⅔ per day.

Michael Welsh, 311 S. Vincent alley, Laborer, Eighteenth Ward, $1.66⅔ per day.

Daniel Crimmons, 1106 Federal street, Laborer, Eighth Ward, $1.66⅔ per day.

Jacob H. Vickers, 11 E. Hamburg street, Laborer, Fifteenth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

John Redman, 918 Valley street, Laborer, Eighth Ward, $1.66⅔ per day.

John Tracy, 221 Bernard avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

Wm. Winston, 3 Andrews avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

Simon Codd, 527 E. Madison street, Laborer, Eighth Ward, $1.66⅔ per day.

C. Sturkell, 904 Catherine street, Laborer, Twenty-second Ward, $1.66⅔ per day.

Thos. Talbert, 240 Lemon street, Laborer, Fourteenth Ward, $1.66⅔ per day.

M. Nolan, Jr., 948 Ensor street, Laborer, Eighth Ward, $1.66⅔ per day.

Lewis Eckstine, 1840 Division street, Paver, Twelfth Ward, $2.75 per day.

Joseph Campbell, 751 Potter avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

Thos. Barber, 945 N. Wolfe street, Laborer, Sixth Ward, $1.66⅔ per day.

J. Coniff, 1204 N. Collington avenue, Laborer, Sixth Ward, $1.66⅔ per day.

Patrick Hester, 218 N. Arlington avenue, Laborer, Fourteenth Ward, $1.66⅔ per day.

R. Benthal, 1705 Fairmount avenue, Laborer, Third Ward, $1.66⅔ per day.

Frank Winston, 951 Warner's Place, Laborer, Eleventh Ward, $1.66⅔ per day.

Chas. Hagan, 128 Hughes street, Laborer, Fifteenth Ward, $1.66⅔ per day.

Jas. McConnell, 726 Calvin Place, Laborer, Eighth Ward, $1.66⅔ per day.

M. Drawanz, 1617 S. Olive street, Paver, Seventeenth Ward, $2.75 per day.

*Water Engineer's Department.—Continued.*

J. Smith, 227 S. Mount street, Laborer, Fourteenth Ward, $1.66⅔ per day.

J. D. Grimes, 420 Hickory avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

J. Lambright, 22 Washington street, Laborer, Twenty-second Ward, $1.66⅔ per day.

Michael Leiphey, 509 N. Front street, Horse and Wagon, Fifth Ward, $2.75 per day.

J. Brewer, 2 Liberty street, Horse and Wagon, Twenty-second Ward, $2.75 per day.

John R. Seymour, 402 E. Cross street, Laborer, Seventeenth Ward, $1.66⅔ per day.

Wm. Logan, 908 Bolton street, Horse and Wagon, Eighth Ward, $2.75 per day.

Fred. Reynolds, 1205 Jefferson street, Laborer, Fifth Ward, $1.66⅔ per day.

E. P. Pembrook, 926 Franklin street, Horse and Wagon, Tenth Ward, 2.75 per day.

Peter Nolan, Huntingdon and Thirtieth, Horse and Cart, Twenty-second Ward, $2.40 per day.

George Bergman, 240 S. Chapel street, Paver, First Ward, $2.75 per day.

P. Rainfelder, 1688 N. Durham street, Paver, Seventh Ward, $2.75 per day.

George Meyer, 1625 N. Durham street, Laborer, Seventh Ward, $1.66⅔ per day.

Edw. McDermott, 1111 Wilcox street, Laborer, Seventh Ward, $1.66⅔ per day.

Joseph Snyder, 803 Hillen street, Laborer, Fourth Ward, $1.66⅔ per day.

K. Buehler, 958 Washington street, Paver, Sixth Ward, $2.75 per day.

C. Cassenderfer, 206 Sycamore avenue, Laborer, Twenty-first Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

George Miller, 1619 N. Carey street, Paver, Twelfth Ward, $2.75 per day.

A. Nolan, Jr., 106 S. Carrollton avenue, Paver, Fourteenth Ward, $2.75 per day.

Felix McKewen, 431 N. Exeter street, Paver, Fifth Ward, $2.75 per day.

Thomas Martin, Jenkins lane, Laborer, Twenty-second Ward, $1.66⅔ per day.

G. Bechoff, 21 S. Chappel street, Paver, Fifth Ward, $2.75 per day.

Robert Allen, 1815 Guilford avenue, Laborer, Eighth Ward, $1.66⅔ per day.

Chas. McEwen, 431 N. Exeter street, Laborer, Fifth Ward, $1.66⅔ per day.

J. W. Duvall, 2417 Etting street, Laborer, Twenty-first Ward, $1.66⅔ per day.

R. Schmidt, 16 N. Durham street, Rammer, Third Ward, $2 per day.

Peter Dorn, 31 Stone hill, Laborer, Twenty-second Ward, $1.66⅔ per day.

D. Shugars, 1318 N. Woodyear street, Rammer, Twentieth Ward, $2 per day.

G. Petrie, 1301 Wirt street, Rammer, Eighth Ward, $2 per day.

J. Weaver, 918 Burgundy alley, Rammer, Sixteenth Ward, $2 per day.

P. McCourts, 1312 Hillman street, Rammer, Eighth Ward, $2 per day.

J. Adelhart, 1614 St. Joseph street, Rammer, Seventh Ward, $2 per day.

F. Hartman, 511 Medairy alley, Rammer, First Ward, $2 per day.

P. Early, 1626 Aisquith street, Laborer, Eighth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Henry Sparleder, 1401 Race street, Laborer, Seventeenth Ward, $1.66⅔ per day.

John Roach, 800 Willis street, Horse and Wagon, Eighth Ward, $2.75 per day.

T. J. Collins, 2022 Hollins street, Laborer, Eighteenth Ward, $1.66⅔ per day.

W. E. Myers, 671 Sarah Ann street, Laborer, Tenth Ward, $1.66⅔ per day.

James Faithful, 702 George street, Laborer, Eleventh Ward, $1.66⅔ per day.

Thomas Day, 1030 Stockton street, Laborer, Twentieth Ward, $1.66⅔ per day.

W. Vickers, 1458 Patapsco street, Laborer, Seventeenth Ward, $1.66⅔ per day.

J. Anderson, 11 S. Eden street, Laborer, Third Ward, $1.66⅔ per day.

Samuel W. Bond, 705 Cumberland street, Laborer, Twelfth Ward, $1.66⅔ per day.

J. E. McConnell, 1832 Brunt street, Laborer, Twelfth Ward, $1.66⅔ per day.

Patrick Flynn, 128 E. Hughes street, Laborer, Fifteenth Ward, $1.66⅔ per day.

George McCabe, 1709 Lemon street, Laborer, Fourteenth Ward, $1.66⅔ per day.

Philip Hagin, 2009 Canton avenue, Laborer, Second Ward, $1.66⅔ per day.

Michael Leland, 1024 Valley street, Laborer, Eighth Ward, $1.66⅔ per day.

J. Kennedy, 1035 Homewood avenue, Horse and Cart, Eighth Ward, $2.40 per day.

C. Plines, 1538 N. Wolfe street, Horse and Cart, Seventh Ward, $2.40 per day.

Edw. Heffner, 724 E. Biddle street, Horse and Cart, Eighth Ward, $2.40 per day.

*Water Engineer's Department.—Continued.*

Theo. Buckingham, 1503 N. Calhoun street, Horse and Cart, Twentieth Ward, $2.40 per day.

R. James, 324 Beech avenue, Horse and Cart, Twenty-second Ward, $2.40 per day.

Wm. Fisher, 213 Falls road, Horse and Cart, Twenty-second Ward, $2.40 per day.

Patrick O'Brien, 830 Hillen street, Horse and Cart, Fifth Ward, $2.40 per day.

Thomas Potter, 622 St. Paul street, Horse and Cart, Eighth Ward, $2.40 per day.

Robert Johnson, 950 N. Howard street, Horse and Cart, Eighth Ward, $2.40 per day.

Chas. Sparrow, 1530 N. Bruce street, Horse and Cart, Nineteenth Ward, $2.40 per day.

Patrick Fitzpatrick, 128 E. Hughes street, Laborer, Fifteenth Ward, $1.66⅔ per day.

Chris. Myers, West Arlington, Laborer, Twenty-first Ward, $1.66⅔ per day.

Jas. T. Neal, 134 Richmond street, Laborer, Eighth Ward, $1.66⅔ per day.

Wm. McCloskey, 1232 Holbert street, Laborer, Seventh Ward, $1.66⅔ per day.

Martin Burns, 218 N. Schroeder street, Laborer, Fourteenth Ward, $1.66⅔ per day.

J. T. O'Brien, 1561 Richmond street, Laborer, Twenty-first Ward, $1.66⅔ per day.

P. Kelly, 339 S. Chester street, Laborer, First Ward, $1.66⅔ per day.

Howard Jenkins, 505 Union street, Laborer, Eleventh Ward, $1.66⅔ per day.

Arthur C. Davis, 1941 White street, Laborer, Nineteenth Ward, $1.66⅔ per day.

Michael Foley, 305 S. Chapel street, Paver, First Ward, $2.75 per day.

*Water Engineer's Department.—Continued.*

Patrick Roche, 1618 E. Pratt street, Laborer, Third Ward, $1.66⅔ per day.

Jas. McKenna, 1812 Duncan alley, Laborer, Sixth Ward, $1.66⅔ per day.

Frank Thome, 1701 Ensor street, Laborer, Eighth Ward, $1.66⅔ per day.

John Parker, 726 Stockton street, Laborer, Nineteenth Ward, $1.66⅔ per day.

Thos. Cadden, 1212 Greenmount avenue, Horse and Cart, Eighth Ward, $2.40 per day.

Jacob Boll, 1042 Aisquith street, Bricklayer, Seventh Ward, $2.75 per day.

Wm. Lee, 610 E. Montgomery street, Laborer, Sixteenth Ward, $1.66⅔ per day.

Wm. Paroonrious, 213 Lewis street, Laborer, Fifth Ward, $1.66⅔ per day.

L. Swangler, 710 S. Register street, Rammer, Second Ward, $2 per day.

John Prosser, 406 Brook street, Laborer, Twenty-first Ward, $1.66⅔ per day.

A. Greenagle, 1819 N. Duncan alley, Laborer, Sixth Ward, $1.66⅔ per day.

John Tillman, 854 Tyson street, Horse and Cart, Eleventh Ward, $2.40 per day.

Michael Murray, 327 N. Calvert street, Laborer, Ninth Ward, $1.66⅔ per day.

James Mullen, 552 Forrest street, Laborer, Fifth Ward, $1.66⅔ per day.

James Quigley, 915 Ashland avenue, Laborer, Seventh Ward, $1.66⅔ per day.

Frank Ward, 1515 Ensor street, Laborer, Eighth Ward, $1.66⅔ per day.

Geo. W. Forrest, 15 S. Stricker street, Laborer, Nineteenth street, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

J. W. Housenworth, 106 Roseland avenue, Laborer, Seventeenth Ward, $1.66⅔ per day.

Andrew Matthews, 940 Ensor street, Laborer, Eighth Ward, $1.66⅔ per day.

H. Miller, 708 Register street, Rammer, Second Ward, $2 per day.

Thos. Rudden, 807 N. Front street, Laborer, Fourth Ward, $1.66⅔ per day.

August Twelle, 1163 W. Hamburg street, Laborer, Eighteenth Ward, $1.66⅔ per day.

John McKenna, 14 Beverly street, Laborer, Seventeenth Ward, $1.66⅔ per day.

John H. Addison, 907 Pierce street, Laborer, Tenth Ward, $1.66⅔ per day.

John Taylor, 1120 Goodman alley, Laborer, Seventeenth Ward, $1.66⅔ per day.

Isaac Farrell, 205 Wyeth street, Laborer, Seventeenth Ward, $1.66⅔ per day.

Elizah H. Winston, 1554 Woodyear street, Laborer, Twentieth Ward, $1.66⅔ per day.

Thomas West, 819 Remington street, Laborer, Twenty-second Ward, $1.66⅔ per day.

Isaac Harman, 1901 Brunt street, Laborer, Twelfth Ward, $1.66⅔ per day.

Ferdinand Klotz, 701 Rose street, Laborer, First Ward, $1.66⅔ per day.

M. E. Markland, 2936 York road, Bricklayer, Twenty-second Ward, $2.75 per day.

W. E. Simons, 519 Norris alley, Laborer, Nineteenth Ward, $1.66⅔ per day.

John A. Eubert, 917 E. Madison street, Paver, Eighth Ward, $2.75 per day.

George Bell, 2541 Florence street, Laborer, Twenty-first Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Henry Henkle, 109 Montford avenue, Laborer, Sixth Ward, $1.66⅔ per day.

S. S. Crist, 125 S. Gilmor street, Meter Reader, Fourteenth Ward, $2 per day.

Wm. Johnson, 1224 Rutter street, Laborer, Twelfth Ward, $1.66⅔ per day.

Saml. Wright, 1008 Scott street, Paver, Eighteenth Ward, $2.75 per day.

Michael McGellen, 111 N. Amity street, Paver, Thirteenth Ward, $2.75 per day.

J. G. Stinemeyer, 2010 E. Chase street, Paver, Sixth Ward, $2.75 per day.

Wm. Wagner, 231 N. Chapel street, Rammer, Sixth Ward, $2 per day.

John Verdes, 1701 Lansing street, Rammer, Seventh Ward, $2 per day.

Joseph Stocker, 1836 E. Fayette street, Paver, Sixth Ward, $2.75 per day.

Thomas Jones, 1526 Barclay street, Laborer, Eighth Ward, $1.66⅔ per day.

Albert Bishop, 535 Kirby lane, Paver, Nineteenth Ward, $2.75 per day.

George Matthews, 19 E. Saratoga street, Laborer, Ninth Ward, $1.66⅔ per day.

Anderson Goldston, Rogers avenue, Laborer, Fifth Ward, $1.66⅔ per day.

John Myers, 816 W. Baltimore street, Laborer, Thirteenth Ward, $1.66⅔ per day.

Beverly Braxton, 1922 Division street, Laborer, Twelfth street, $1.66⅔ per day.

Wm. Adams, 1812 Etting street, Laborer, Twelfth Ward, $1.66⅔ per day.

Henry Johnson, 137 Johns alley, Laborer, Twelfth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Wm. Reuschling, 1804 Brunt street, Laborer, Twelfth Ward, $1.66⅔ per day.

Geo. H. Addison, 837 W. Lexington street, Laborer, Thirteenth Ward, $1.66⅔ per day.

Jas. D. Branch, 2230 Etting street, Laborer, Twelfth Ward, $1.66⅔ per day.

A. D. Lewis, 2128 Etting street, Laborer, Twelfth Ward, $1.66⅔ per day.

Wm. Hardy, 1330 Division street, Laborer, Twelfth Ward, $1.66⅔ per day.

Lewis H. Matthews, 29 Carroll avenue, Laborer, Twenty-first Ward, $1.66⅔ per day.

Wm. H. Erkauns, 1403 Brunt street, Laborer, Twelfth Ward, $1.66⅔ per day.

Wm. Cole, 126 W. York street, Laborer, Fifteenth Ward, $1.66⅔ per day.

Andrew Rodgers, 17 Dorsey lane, Laborer, Twenty-first Ward, $1.66⅔ per day.

Wm. F. Gardner, 411 Stafford avenue, Laborer, Twenty-first Ward, $1.66⅔ per day.

Lewis D. Cox, 1006 Argyle avenue, Laborer, Eleventh Ward, $1.66⅔ per day.

Chas. T. Golden, 1627 Brunt street, Laborer, Twelfth Ward, $1.66⅔ per day.

J. J. Bailey, 1305 Druid Hill avenue, Laborer, Twelfth Ward, $1.66⅔ per day.

M. J. Sirens, 1036 Granby street, Horse and Cart, Fourth Ward, $2.40 per day.

John R. Dent, 1004 Sharp street, Laborer, Seventeenth Ward, $1.66⅔ per day.

Henry Thomas, 216 Winstead street, Laborer, Eighteenth Ward, $1.66⅔ per day.

Wm. E. Cross, 257 Thirty-first street, Laborer, Twenty-second Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Major Cross, 403 Vincent alley, Laborer, Nineteenth Ward, $1.66⅔ per day.

James Dunn, 940 Ensor street, Horse and Cart, Eighth Ward, $2.40 per day.

Henry J. Houck, 1403 Press Brick court, Laborer, Eighteenth Ward, $1.66⅔ per day.

John H. Williams, 804 Hansome street, Laborer, Twelfth Ward, $1.66⅔ per day.

Geo. A. Montgomery, 626 Mosher street, Laborer, Twentieth Ward, $1.66⅔ per day.

Howard M. Miller, 1506 W. Franklin street, Laborer, Nineteenth Ward, $1.66⅔ per day.

Rudolph Habreckt, 1104 Patuxent street, Laborer, First Ward, $1.66⅔ per day.

Andrew Lunz, 1908 E. Fayette street, Laborer, Sixth Ward, $1.66⅔ per day.

Fred. S. Torback, 1259 James street, Laborer, Eighteenth Ward, $1.66⅔ per day.

Harry Hill, 536 W. Preston street, Laborer, Eleventh Ward, $1.66⅔ per day.

Chas. Daily, 226 Pine street, Laborer, Tenth Ward, $1.66⅔ per day.

Jas. H. Mills, 1035 Harmony lane, Laborer, Fourteenth Ward, $1.66⅔ per day.

Wm. Colbert, 1339 Wirt street, Laborer, Eighth Ward, $1.66⅔ per day.

H. A. Kusemaul, 1413 W. Saratoga street, Laborer, Fourteenth Ward, $1.66⅔ per day.

Wm. Roche, 239 Dolphin street, Laborer, Twelfth Ward, $1.66⅔ per day.

Howard Irwin, 2006 Hunter's alley, Laborer, Twenty-second Ward, $1.66⅔ per day.

Frisby Coxing, 828 Bradley street, Laborer, Tenth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

John H. Cammetts, 1633 Forman court, Laborer, Eighteenth Ward, $1.66⅔ per day.

Jas. Butler, 17 S. Stockton street, Laborer, Nineteenth Ward, $1.66⅔ per day.

D. Reynolds, 1424 Oliver street, Horse and Wagon, Seventh Ward, $2.75 per day.

Geo. W. Rhein, 1011 Ensor street, Horse and Wagon, Seventh Ward, $2.75 per day.

John Clancey, 510 Rogers avenue, Laborer, Fifth Ward, $1.66⅔ per day.

Anton Winters, 1712 Friendsbury Place, Laborer, Twentieth Ward, $1.66⅔ per day.

John T. Shreve, 55 E. Montgomery street, Laborer, Fifteenth Ward, $1.66⅔ per day.

Michael Concannon, 118 S. Carey street, Laborer, Fourteenth Ward, $1.66⅔ per day.

Robert Redmond, 513 Third avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

Edw. Thornton, 14 Belt street, Laborer, Twenty-second Ward, $1.66⅔ per day.

Wm. H. Brown, 109 Union avenue, Laborer, Twenty-first Ward, $1.66⅔ per day.

Wm. E. McDermott, 826 E. Eager street, Laborer, Eighth Ward, $1.66⅔ per day.

Edward Atkinson, 281 Hickory avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

W. Turner, 2408 Montebello avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

Charles Heck, 1015 N. Washington street, Laborer, Sixth Ward, $1.66⅔ per day.

Frank Maker, 1602 Clifton Place, Laborer, Eighth Ward, $1.66⅔ per day.

James Tillman, 1121 Kirk street, Laborer, Eleventh Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Thomas Barker, 1352 Stockton street, Laborer, Twentieth Ward, $1.66⅔ per day.

Chas. C. Cooper, 1203 Forrest street, Laborer, Twelfth Ward, $1.66⅔ per day.

John G. Skinner, 1601 Vincent street, Laborer, Twentieth Ward, $1.66⅔ per day.

Chas. W. Lee, 502 Bloom street, Laborer, Twelfth Ward, $1.66⅔ per day.

J. W. Walters, 1408 Brunt street, Laborer, Twelfth Ward, $1.66⅔ per day.

Andrew Engram, 1310 Rutter street, Laborer, Twelfth Ward, $1.66⅔ per day.

Joseph Gay, 202 Foster street, Laborer, Eleventh Ward, $1.66⅔ per day.

Edw. Evans, 206 Washington street, Laborer, Twenty-second Ward, $1.66⅔ per day.

Lorenzo Young, 15 Belt street, Laborer, Twenty-second Ward, $1.66⅔ per day.

Jesse Harriday, 1327 Lemon street, Laborer, Fourteenth Ward, $1.66⅔ per day.

James Holliday, 2128 Morris alley, Laborer, Twelfth Ward, $1.66⅔ per day.

Samuel Friend, 413 Druid Hill avenue, Laborer, Eleventh Ward, $1.66⅔ per day.

John Frazier, 1223 Bank street, Laborer, Fourth Ward, $1.66⅔ per day.

Thos. McCormick No. 2, 111 E. York street, Laborer, Fifteenth Ward, $1.66⅔ per day.

Thomas W. Withers, 505 Warner street, Laborer, Sixteenth Ward, $1.66⅔ per day.

Benj. Leidig, 410 Pulaski street, Laborer, Nineteenth Ward, $1.66⅔ per day.

F. Lipka, 1616 Abbott street, Rammer, Seventh Ward, $2 per day.

*Water Engineer's Department.—Continued.*

Geo. Heimline, 1337 Stockton street, Laborer, Twentieth Ward, $1.66⅔ per day.

H. C. Davis, 34 Carroll avenue, Laborer, Twenty-first Ward, $1.66⅔ per day.

Alex. Johnson, 2213 Hunter's alley, Laborer, Twenty-second Ward, $1.66⅔ per day.

Chas. Harden, 1028 Stockton street, Laborer, Nineteenth Ward, $1.66⅔ per day.

Wm. E. Mitchell, 819 Linden avenue, Horse and Cart, Eleventh Ward, $2.40 per day.

Peter Johnson, 1339 Ward street, Laborer, Eighteenth Ward, $1.66⅔ per day.

P. J. Harron, 812 Harford avenue, Laborer, Eighth Ward, $1.66⅔ per day.

M. F. Gaffey, 1111 Ensor street, Laborer, Seventh Ward, $1.66⅔ per day.

James Dempsey, 1005 Guilford avenue, Horse and Cart, Eighth Ward, $2.40 per day.

Albert E. Van Horn, 1020 Light street, Horse and Wagon, Fifteenth Ward, $2.75 per day.

Geo. T. Cole, 1540 Woodyear street, Laborer, Twentieth Ward, $1.66⅔ per day.

Thomas Collins No. 2, 917 Valley street, Laborer, Eighth Ward, $1.66⅔ per day.

Geo. Stirling, 316 Twenty-second and a-half street, Laborer, Twenty-second Ward, $1.66⅔ per day.

Henry J. Ruesskamp, 703 Third avenue, Assistant Superintendent, Twenty-second Ward, $4 per day.

Jas. S. Saunders, 548 W. Preston street, Inspector, Twelfth Ward, $3 per day.

Geo. W. Reppart, 226 Warren avenue, Inspector, Fifteenth Ward, $2 per day.

Chas. P. Schlert, 1524 W. Pratt street, Inspector, Fourteenth Ward, $2 per day.

*Water Engineer's Department.—Continued.*

Wm. T. Duncan, 21 Randall street, Inspector, Seventeenth Ward, $2.50 per day.

Walter Conway, 1225 Wall street, Machinist, Seventeenth Ward, $2.50 per day.

Thos. P. Miles, 766 Ramsay street, Machinist, Eighteenth Ward, $2.50 per day.

Jesse Conway, 1406 W. Franklin street, Machinist, Nineteenth Ward, $2.50 per day.

A. Koster, 5 E. Montgomery street, Machinist, Fifteenth Ward, $2.50 per day.

Jas. F. Likes, 707 W. Fayette street, Machinist, Thirteenth Ward, $2.50 per day.

M. Roache, 306 Washington street, Laborer, Twenty-second Ward, $1.66⅔ per day.

Geo. H. Poulton, 107 S. Poppleton street, Machinist, Fourteenth Ward, $2.50 per day.

J. L. Bowers, West Arlington, Machinist, Twenty-first Ward, $2.50 per day.

Thos. E. Lowe, 1412 William street, Pattern-maker, Seventeenth Ward, $2.50 per day.

E. L. Snow, 36 E. Henrietta street, Pattern-maker, Fifteenth Ward, $2.50 per day.

John G. Ingleson, 1004 E. Hoffman street, Foreman, Eighth Ward, $3 per day.

L. W. Allen, 234 N. Stricker street, Painter, Nineteenth Ward, $2.50 per day.

L. H. Edmonson, 314 E. Biddle street, Painter, Eleventh Ward, $2.50 per day.

Henry Michael, 805 Hanover street, Carpenter, Fifteenth Ward, $2.50 per day.

H. W. Barnett, Randall street, Carpenter, Seventeenth Ward, $2.50 per day.

George Carr, 910 William street, Blacksmith, Fifteenth Ward, $2.75 per day.

*Water Engineer's Department.—Continued.*

Owen Gorman, 2452 Greenmount avenue, Helper, Twenty-second Ward, $1.66⅔ per day.

Chas. W. Berg, Garrison Heights, Watchman, Twenty-first Ward, $1.66⅔ per day.

Thos. G. Griffith, 1908 McElderry street, Machinist, Sixth Ward, $2.50 per day.

Joseph Fefel, 1208 Bethel street, Laborer, Seventh Ward, $1.66⅔ per day.

Thos. Mullikin, 413 E. Lafayette avenue, Machinist Helper, Eighth Ward, $2 per day.

D. Maskell, 1504 N. Bethel street, Foreman, Sixth Ward, $2 per day.

H. Peddicord, 2512 E. Townsend street, Laborer, Sixth Ward, $1.66⅔ per day.

E. H. Haslup, 2407 E. Townsend street, Laborer, Sixth Ward, $1.66⅔ per day.

Thos. Rolle, 316 E. Biddle street, Laborer, Eighth Ward, $1.66⅔ per day.

John Slaymaker, 2514 Salem street, Laborer, Twenty-first Ward, $1.66⅔ per day.

Wm. Upton, 1624 E. Fayette street, Laborer, Third Ward, $1.66⅔ per day.

Chas. Miller, 2219 E. Monument street, Laborer, Sixth Ward, $1.66⅔ per day.

Wm. C. Schaffer, 253 E. Hamburg street, Foreman, Fifteenth Ward, $2 per day.

R. B. Henson, 1513 N. Bethel street, Laborer, Seventh Ward, $1.66⅔ per day.

D. Dunn, 2112 York road, Laborer, Twenty-second Ward, $1.66⅔ per day.

John A. Sharpe, 1316 Whatcoat street, Laborer, Nineteenth Ward, $1.66⅔ per day.

John Patrone, 823 Eastern avenue, Laborer, First Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

J. W. Miles, 310 S. Stricker street, Laborer, Fourteenth Ward, $1.66⅔ per day.

Edw. Mortimer, 1243 S. Eutaw street, Laborer, Eighteenth Ward, $1.66⅔ per day.

Jas. Owens, 912 Pierce street, Laborer, Tenth Ward, $1.66⅔ per day.

Philip Aaron, 537 Aisquith street, Laborer, Fifth Ward, $1.66⅔ per day.

John G. Harten, 1203 W. Franklin street, Inspector, Nineteenth Ward, $2 per day.

Saml. Bryan, 1839 E. Biddle street, Laborer, Seventh Ward, $1.66⅔ per day.

Jacob Sauerwald, 24 N. Fulton avenue, Laborer, Nineteenth Ward, $1.66⅔ per day.

John E. Quinn, 228 S. Caroline street, Laborer, Third Ward, $1.66⅔ per day.

H. M. Eldridge, 917 Patuxent street, Laborer, First Ward, $1.66⅔ per day.

Wm. J. Vansant, 510 N. Paca street, Laborer, Eleventh Ward, $1.66⅔ per day.

Wm. H. Blanchard, 1447 Covington street, Laborer, Seventeenth Ward, $1.66⅔ per day.

J. Blomberg, McElderry street, Laborer, Eighth Ward, $1.66⅔ per day.

W. H. Wells, 306 Twenty-second and a-half street, Laborer, Twenty-second Ward, $1.66⅔ per day.

C. R. Gregory, 115 W. West street, Laborer, Seventeenth Ward, $1.66⅔ per day.

Jackson Thomas, 785 Mulberry street, Laborer, Tenth Ward, $1.66⅔ per day.

Alex. Collins, 813 Neighbor street, Laborer, Eighth Ward, $1.66⅔ per day.

Philip Spitznagle, 2424 E. Biddle street, Laborer, Sixth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

Lewis Reinheld, 9 S. Fremont street, Horse and Cart, Thirteenth Ward, $2.40 per day.

Fred. Thomas, 1049 Riverside avenue, Horse and Cart, Seventeenth Ward, $2.40 per day.

Emory Brooks, 517 Falls road, Laborer, Twenty-second Ward, $1.66⅔ per day.

Patrick McKewen, 426 Rogers avenue, Laborer, Fifth Ward, $1.66⅔ per day.

John W. Hall, 232 Bowser court, Laborer, Fourteenth Ward, $1.66⅔ per day.

Wm. Bircklein, 2312 Canton avenue, Laborer, First Ward, $1.66⅔ per day.

Michael Garrity, 114 Buford avenue, Laborer, Ninth Ward, $1.66⅔ per day.

Robert Forrester, 1333 Division street, Laborer, Twelfth Ward, $1.66⅔ per day.

Thomas Collins, 233 Amity street, Rammer, Thirteenth Ward, $2 per day.

John Griffin, 427 N. Exeter street, Rammer, Fifth Ward, $2 per day.

James Connolly, 2008 Pleasant alley, Rammer, First Ward, $2 per day.

J. K. E. Diffenderfer, Windsor road, Draughtsman, Twenty-first Ward, $4.50 per day.

E. Sudler, 239 W. Preston street, Draughtsman, Eighth Ward, $4 per day.

F. Smith, 1017 Point lane, Inspector, Seventh Ward, $2 per day.

John Cusick, 210 N. Arlington avenue, Laborer, Fourteenth Ward, $1.66⅔ per day.

Thos. Connolly, 612 E. Eager street, Laborer, Eighth Ward, $1.66⅔ per day.

Patrick Healy, 1008 W. Pratt street, Laborer, Fifteenth Ward, $1.66⅔ per day.

*Water Engineer's Department.—Continued.*

S. Kloman, 1016 E. Lombard street, Laborer, Sixth Ward, $1.66⅔ per day.

John B. Spittigue, 805 N. Front street, Horse and Cart, Eighth Ward, $2.40 per day.

George Ford, 41 E. Hill street, Bricklayer, Fifteenth Ward, $2.75 per day.

Jas. R. Plowman, 553 Bloom street, Horse and Cart, Twelfth Ward, $2.40 per day.

Chas. L. Willey, 1713 Ensor street, Laborer, Seventh Ward, $1.66⅔ per day.

Wm. McCullough, 1544 Aisquith street, Bricklayer, Seventh Ward, $2.75 per day.

Thomas Nolan, 1182 Columbia avenue, Laborer, Eighteenth Ward, $1.66⅔ per day.

Saml. Johnson, 1033 S. Howard street, Horse and Cart, Fifteenth Ward, $2.40 per day.

Mrs. C. Roberts, 1610 Jefferson street, Janitress, Sixth Ward, $25 per month.

F. Beard, 1526 John street, Accountant, Twelfth Ward, $4 per day.

## CITY LIBRARY.

B. L. Turner, 548 N. Fulton avenue, Librarian, Nineteenth Ward, $1500 per annum. (Code of 1893, Art. 32, Secs. 1 and 8.)

J. Cushing Bailey, 1510 Linden avenue, Assistant Librarian, Twelfth Ward, $900 per annum. (Code of 1893, Art. 32, Secs. 1 and 8.)

## COURTHOUSE COMMISSION.

William H. Leeke, 1006 N. Eden street, Superintendent of Construction, Seventh Ward, $2500. (By contract.)

Otis C. Brownley, 1218 E. Preston street, Secretary, Seventh Ward, $300. (Resolution of the committee.)

## SEWERAGE COMMISSION.

(Joint resolution of the Mayor and City Council, approved March 18, 1898.)

Kenneth Allen, Walbrook, Principal Engineer, Twenty-first Ward, $2400 per annum.

C. L. Rector, 912 Calvert street, Clerk, Ninth Ward, $720 per annum.

C. E. Taylor, 409 St. Paul street, Assistant Engineer, Ninth Ward, $1500 per annum.

Edwin Mitchell, 324 N. Charles street, Assistant Engineer, Ninth Ward, $1200 per annum.

Tolley A. Biays, 318 Courtland street, Rodman, Ninth Ward, $600 per annum.

Wm. Wagner, 723 Third avenue, Rodman, Twenty-second Ward, $600 per annum.

H. B. Warren, 343 N. Calvert street, Recorder, Ninth Ward, $1.25 per day.

Adam Chambers, 2811 Parkwood avenue, Axeman and Chainman, Twenty-first Ward, $1.25 per day.

Robert M. Miller, 1741 Park avenue, Recorder, Twelfth Ward, $1.50 per day.

## CITY COMMISSIONER'S DEPARTMENT.

(Code of 1893, Secs. 63 and 66, Art. 48.)

Lawrence F. Lewis, 1225 N. Calvert street, Commissioner, Eighth Ward, $4000 per annum.

O. W. Connett, 308 E. Twenty-third street, Assistant Commissioner, Twenty-second Ward, $2000 per annum.

F. S. Hancock, Hotel Brexton, Assistant Commissioner, Eighth Ward, $2000 per annum.

J. S. Patterson, 1302 John street, Assistant Commissioner, Twelfth Ward, $2000 per annum.

James A. Paige, 3204 Clifton avenue, Chief Clerk, Twenty-first Ward, $1500 per annum. (Code of 1893, Sec. 68, Art. 48.)

(Code of 1893, Sec. 94a, Art. 48.)

John E. Graham, 107 S. Broadway, Paymaster, Third Ward, $1400 per annum.

Malcolm Hart, 1513 Druid Hill avenue, Stenographer, Twelfth Ward, $1200 per annum.

Wm. L. Hughes, 510 N. Collington avenue, Pole Inspector, Sixth Ward, $1000 per annum.

J. Robert Read, 209 E. Twenty-third street, Permit Clerk, Twenty-second Ward, $1000 per annum.

Herbert E. Gibson, Cater avenue, "Annex," Messenger, Twenty-second Ward, $720 per annum.

Chris. Rosenbrock, 1625 S. Charles street, Inspector of Materials, Seventeenth Ward, $1000 per annum.

B. L. Weston, 2102 Oak street, Assistant Engineer, Twenty-second Ward, $1500 per annum.

Harry Gilmor, 617 St. Paul street, Assistant Engineer, Ninth Ward, $1200 per annum.

Layton F. Smith, 2263 Madison avenue, Assistant Engineer, Twenty-second Ward, $1200 per annum.

F. K. Duncan, 1109 Harlem avenue, Draughtsman, Nineteenth Ward, $900 per annum.

Herman E. Grafe, 516 W. Hamburg street, Draughtsman, Eighteenth Ward, $900 per annum.

Jacob Franklin, 1405 E. Fayette street, Inspector Footways, Fourth Ward, $720 per annum.

Chas. Garrett, 1919 Pennsylvania avenue, Rodman, Twelfth Ward, $780 per annum.

Col. A. W. Spates, 107 S. Poppleton street, Inspector Improved Pavements, Thirteenth Ward, $1200 per annum.

G. F. Proudfoot, 621 N. Mount street, Typewriter, Nineteenth Ward, $720 per annum.

H. D. Hodgkins, 2930 York road, Clerk, Twenty-second Ward, $720 per annum.

W. F. Waters, 1702 Madison avenue, Assistant Engineer, Twelfth Ward, $1400 per annum.

Webster M. Kefauver, 626 W. North avenue, Assistant Engineer, Twenty-first Ward, $1200 per annum.

R. K. Compton, 1616 Bolton street, Assistant Engineer, Twelfth Ward, $1200 per annum.

T. B. Mitchell, 819 George street, Inspector, Tenth Ward, $1200 per annum.

H. F. Siemers, 1212 S. Gilmor street, Draughtsman, Fourteenth Ward, $1080 per annum.

Bernard Doyle, Liberty road, Rodman, Twenty-first Ward, $720 per annum.

Chas. L. Boone, 919 N. Calvert street, Typewriter, Ninth Ward, $720 per annum.

Chas. H. Foster, 1616 Hollins street, Clerk, Nineteenth Ward, $600 per annum.

——— ——— Inspector, ——— $600 per annum.

W. M. Strebb, 111 S. High street, Mechanical Engineer, Fourth Ward, $900 per annum.

T. P. Rose, 37 E. Twenty-fifth street, Chief Clerk, Twenty-second Ward, $720 per annum.

S. C. Woods, 437 E. Clement street, Inspector, Seventeenth Ward, $720 per annum.

Andrew Daumann, 615 S. Charles street, Inspector, Fifteenth Ward, $720 per annum.

J. R. Dunlop, 238 Richmond street, Typewriter, Eighth Ward, $720 per annum.

W. H. Davis, 10 S. Chester street, Keeper Belair Lot, First Ward, $720 per annum.
Charles Brown, 144 Chestnut street, Watchman, Fourth Ward, $600 per annum.

*Stricker Street Sewer.*

(Code of 1893, Sec. 94a, Art. 48.)

Benjamin Paul, 913 Frederick avenue, Carpenter, Twenty-first Ward, $2.75 per day.
Wm. C. Bailey, 122 S. Calhoun street, Watchman, Fourteenth Ward, $2 per day.
Thomas Omahundro, 301 S. Gilmor street, Engineman, Eighteenth Ward, $2.50 per day.
Edward Callis, 1804 Oakley street, Bricklayer, Nineteenth Ward, $3 per day.
August Rahning, 1843 Lorman street, Bricklayer, Nineteenth Ward, $3 per day.
William Burke, 954 Harford avenue, Bricklayer, Eighth Ward, $3 per day.
William Callis, 1506 N. Wolfe street, Bricklayer, Seventh Ward, $3 per day.
Graham Pinder, 825 Parrish street, Carter, Twentieth Ward, $2.25 per day.
Edward Jackson, 702 Saratoga street, Carter, Tenth Ward, $2.25 per day.
Frank McKenna, 661 Vine street, Carter, Tenth Ward, $2.25 per day.
John L. Green, 1509 Vine street, Carter, Nineteenth Ward, $2.25 per day.
William Worrell, 101 Third avenue, Laborer, Twenty-first Ward, $1.66⅔ per day.
Jas. Hannan, 1811 Brunt street, Laborer, Twelfth Ward, $1.66⅔ per day.
Jas. S. Davis, 520 St. Mary's street, Laborer, Eleventh Ward, $1.66⅔ per day.

William Carr, 205 Madeira street, Laborer, First Ward, $1.66⅔ per day.
David McElderry, 1312 Stockton street, Laborer, Twentieth Ward, $1.66⅔ per day.
Wm. A. Butler, 306 N. Bethel street, Laborer, Sixth Ward, $1.66⅔ per day.
Chas. A. Grandison, 1541 Woodyear street, Laborer, Twentieth Ward, $1.66⅔ per day.
Charles Badger, 433 W. Monument street, Laborer, Eleventh Ward, $1.66⅔ per day.
Thomas Monroe, 1027 Stockton street, Laborer, Twentieth Ward, $1.66⅔ per day.
George W. Ross, 579 Oxford avenue, Laborer, Eleventh Ward, $1.66⅔ per day.
George Ashley, 1400 Brunt street, Laborer, Twelfth Ward, $1.66⅔ per day.
George Gallery, 1308 Riggs avenue, Laborer, Twelfth Ward, $1.66⅔ per day.
Wm. A. Hall, 1414 Division street, Laborer, Twelfth Ward, $1.66⅔ per day.
John H. Trewett, 1502 Brunt street, Laborer, Twelfth Ward, $1.66⅔ per day.
George E. Jones, 256 S. Bethel street, Laborer, Third Ward, $1.66⅔ per day.
Muscoe Vesselli, 330 Twenty-second and a-half street, Laborer, Twenty-second Ward, $1.66⅔ per day.
Thomas Chisley, 1420 Carroll street, Laborer, Eighteenth Ward, $1.66⅔ per day.
Louis Wilson, 619 Calhoun street, Laborer, Twentieth Ward, $1.66⅔ per day.
Isaac Swanson, 245 Arlington avenue, Laborer, Fourteenth Ward, $1.66⅔ per day.
Henry B. Evans, 1002 Argyle avenue, Laborer, Fourteenth Ward, $1.66⅔ per day.
George Brown, 221 Parrish alley, Laborer, Nineteenth Ward, $1.66⅔ per day.

John Freeland, 520 Cross alley, Laborer, Tenth Ward, $1.66⅔ per day.

David R. Stevens, 738 Pierce street, Laborer, Tenth Ward, $1.66⅔ per day.

William Lassery, 1300 Bruce street, Laborer, Nineteenth Ward, $1.66⅔ per day.

Oscar Lewis, 519 Parrish alley, Laborer, Nineteenth Ward, $1.66⅔ per day.

John Siebert, 623 Riggs avenue, Laborer, Nineteenth Ward, $1.66⅔ per day.

Notley Young, 1341 Whatcoat street, Laborer, Nineteenth Ward, $1.66⅔ per day.

Theodore Nelson, 20 Bruce street, Laborer, Nineteenth Ward, $1.66⅔ per day.

Benj. Howell, Penn Lucy avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.

George Cooper, 828 Columbia avenue, Foreman Pavers, Eighteenth Ward, $3 per day.

Henry Eiford, 2054 E. Eager street, Paver, Sixth Ward, $3 per day.

Adam Lang, 1037 Barre street, Paver, Eighteenth Ward, $3 per day.

Andrew Evans, 12 S. Washington street, Paver, Third Ward, $3 per day.

Theodore Rohlender, 1309 Wilcox street, Rammer, Seventh Ward, $2 per day.

George Hull, Jr., 214 E. Vine street, Rammer, Seventeenth Ward, $2 per day.

Wm. Richardson, ————, Laborer, ——— $1.66⅔ per day.

Frederick Hoffman, 1105 Pennsylvania avenue, Laborer, Eleventh Ward, $1.66⅔ per day.

Godfrey Reese, 520 McMechen street, Carter, Twelfth Ward, $2.25 per day.

*Clifton Avenue Sewer.*

(Code of 1893, Sec. 94a, Art. 48.)

Major Turner, 814 Woodyear street, Laborer, $1.66⅔ per day.

Malvin Hall, 2110 Etting street, Laborer, $1.66⅔ per day.

Moses Hackett, 402 Orchard street, Laborer, Eleventh Ward, $1.66⅔ per day.

Thomas Tilghman, 1120 Whatcoat street, Twentieth Ward, $1.66⅔ per day.

Domenick Grogan, 604 S. Durham street, Bridgeman, First Ward, $2 per day.

Stephen Loret, 1725 Aliceanna street, Laborer, Second Ward, $1.66⅔ per day.

Henry L. Herck, 1118 Chesapeake street, Laborer, First Ward, $1.66⅔ per day.

Harry Wright, 325 St. Paul street, Laborer, Ninth Ward, $1.66⅔ per day.

Samuel Stevens, 723 S. Broadway, Bridgeman, Second Ward, $2 per day.

Joseph Smith, Minebank lane, Laborer, Sixth Ward, $1.66⅔ per day.

Joseph Wayson, 1832 Aliceanna street, Laborer, Second Ward, $1.66⅔ per day.

John Stringfellow, Waverly, Laborer, Twenty-second Ward, $1.66⅔ per day.

David Morrow, 1601 Baker street, Inspector, Twentieth Ward, $2.66 per day.

Thomas J. Maston, 1804 W. Baltimore street, Inspector, Nineteenth Ward, $2.66 per day.

*Paving Gang.*

(Code of 1893, Sec. 94a, Art. 48.)

Russel J. Curns, 1841 Hopkins avenue, Foreman, Eighth Ward, $3 per day.

Samuel McKenny, 406 E. North avenue, Laborer, Twenty-second Ward, $1.66⅔ per day.
Samuel Brown (colored), 1502 Barclay street, Laborer, Twenty-second Ward, $1.66⅔ per day.
Jacob Williams, 1213 Barclay street, Laborer, Twenty-second Ward, $1.66⅔ per day.
Michael Jackson, 21 Merryman's lane, Laborer, Twenty-second Ward, $1.66⅔ per day.
Ellis Jarvis, 18 Talbot street, Laborer, Twenty-second Ward, $1.66⅔ per day.
George Contee, 20 Talbot street, Laborer, Twenty-second Ward, $1.66⅔ per day.
Walter Bundy, 1829 Spring street, Laborer, Seventh Ward, $1.66⅔ per day.
Peter Gross, 329 Filmore street, Laborer, Twenty-second Ward, $1.66⅔ per day.
John Diggs, 1010 Wolfe street, Laborer, Seventh Ward, $1.66⅔ per day.
Robert Marshall, 5 Merryman's lane, Laborer, Twenty-second Ward, $1.66⅔ per day.
Richard Rainey, 121 Brady avenue, Carter, Twenty-second Ward, $2.25 per day.
George W. Hall, 217 S. Caroline street, Foreman, Third Ward, $3 per day.
Henry Hopfalt, 1524 Battery avenue, Paver, Seventeenth Ward, $3 per day.
Peter Heckroff, 613 E. Fort avenue, Paver, Seventeenth Ward, $3 per day.
Geo. Minsterman, 619 S. Bethel street, Rammer, Second Ward, $2 per day.
Albin Smith, 1608 E. Pratt street, Rammer, Fourth Ward, $2 per day.
Michael Kolopski, 2025 W. First street, Laborer, Twenty-first Ward, $1.66⅔ per day.
Lewis Hecker, 517 N. Howard street, Carter, Ninth Ward, $2.25 per day.

Andrew Fischer, 2518 E. Townsend street, Laborer, Sixth Ward, $1.66⅔ per day.
Alphonsus F. Holbrook, 1815 N. Broadway, Foreman, Seventh Ward, $3 per day.
John Farrow, 146 N. High street, Paver, Fourth Ward, $3 per day.
Timothy Ward, 221 N. Amity street, Paver, Fourteenth Ward, $3 per day.
James Schabach, 1709 Barnett street, Paver, Seventh Ward, $3 per day.
John Cross, 804 Central avenue, Rammer, Seventh Ward, $2 per day.
Louis Stiner, 2525 E. Oliver street, Rammer, Sixth Ward, $2 per day.
Frank Biggs, 1305 N. Chapel street, Laborer, Seventh Ward, $1.66⅔ per day.
Jas. Batchelor, 1016 N. Washington street, Laborer, Sixth Ward, $1.66⅔ per day.
Frank Strable, 1711 Lansing avenue, Laborer, Seventh Ward, $1.66⅔ per day.
William Wooden, 1318 Harford avenue, Carter, Seventh Ward, $2.25 per day.
Patrick Finney, 1529 Aisquith street, Carter, Eighth Ward, $2.25 per day.

*Sewer Repair Gangs.*

(Code of 1893, Sec. 94a, Art. 48.)

William Thrope, 1716 W. Pratt street, Foreman, Fourteenth Ward, $3 per day.
Jas. J. Blaney, 810 N. Mount street, Bricklayer, Nineteenth Ward, $3 per day.
Ralph Winston, 1 Belt street, Laborer, Twenty-first Ward, $1.66⅔ per day.
William Patterson, Fairmount avenue, Laborer, Second Ward, $1.66⅔ per day.

Chas. R. Nally, Mt. Olivet lane, Laborer, Twenty-first Ward, $1.66⅔ per day.

Jas. Powell, Walbrook, Laborer, Twenty-first Ward, $1.66⅔ per day.

Henry Frederick, 525 S. Ann street, Laborer, Second Ward, $1.66⅔ per day.

*Brice Alley Sewer.*

(Code of 1893, Sec. 94a, Art. 48.)

John W. Krebs, 1105 Pinkney street, Carpenter, Eighteenth Ward, $2.75 per day.

John McBride, 1443 Monument street, Laborer, Sixth Ward, $1.66⅔ per day.

Ed. Kirby, 922 Mount street, Superintendent, Nineteenth Ward, $3.33⅓ per day.

Gilbert C. Bolgino, 1363 N. Carey street, Superintendent, Twentieth Ward, $2.74 per day.

Charles Meyers, 1557 Newington Place, Laborer, Twentieth Ward, $1.66⅔ per day.

W. B. Covell, 1323 W. Lombard street, Rodman, Fourteenth Ward, $2 per day.

STREET CLEANING DEPARTMENT.

Frederick R. Bye, 733 N. Fulton avenue, Commissioner, Nineteenth Ward, $2000 per annum. (Code of 1893, Sec. 185, Art. 48.)

Samuel J. Blight, 513 E. Twenty-second street, Clerk, Twenty-second Ward, $1000 per annum. (Code of 1893, Sec. 186, Art. 48.)

(Code of 1893, Secs. 207 and 216, Art. 48.)

Chas. J. Strebeck, 2425 Eastern avenue, Superintendent First District, First Ward, $1000 per annum.

*Street Cleaning Department.—Continued.*

Jos. H. Cooper, 1417 Jefferson street, Superintendent Second District, Sixth Ward, $1000 per annum.

R. Lewis Morton, 205 E. Saratoga street, Superintendent Third District, Ninth Ward, $1000 per annum.

John C. Weaver, 1960 Hanover street, Superintendent Fourth District, Seventeenth Ward, $1000 per annum.

John T. Carter, 1013 Argyle avenue, Superintendent Fifth District, Eleventh Ward, $1000 per annum.

Wm. A. Poist, 826 Harlem avenue, Superintendent Sixth District, Twentieth Ward, $1000 per annum.

Octavius Dix, 2646 Huntingdon avenue, Superintendent Seventh District, Twenty-second Ward, $1000 per annum.

Thos. B. Sweeting, 723 Aisquith street, Superintendent Eighth District, Seventh Ward, $1000 per annum.

(Code of 1893, page 1017.)

Geo. F. Allen, 3106 Dillon street, Superintendent Caroline Street Dump, First Ward, $600 per annum.

Wm. G. Hoffman, 1419 Patterson avenue, Superintendent Spring Garden, Nineteenth Ward, $600 per annum.

John Hippler, Eutaw an Henrietta streets, Assistant Superintendent Spring Garden, Eighteenth Ward, $546 per annum.

Robert P. Harrison, 1517 Hanover street, Superintendent Hanover Street Dump, Seventeenth Ward, $624 per annum.

Chas. H. Richards, 2113 W. Lexington street, Superintendent Sweeping Machines, Nineteenth Ward, $624 per annum.

*Street Cleaning Department.—Continued.*

John Benneburg, 40 Parkin street, Superintendent Warehouse and Repairs, Thirteenth Ward, $780 per annum.

Geo. Freeman, 2003 Oakley street, Assistant Superintendent Warehouse and Repairs, Nineteenth Ward, $540 per annum.

(Code of 1893, Sec. 221, Art. 48.)

Thos. Barnes, 615 S. Ann street, Sweeper and Scraper, Second Ward, $10 per week.

Christian Jerscheid, 607 S. Patterson Park avenue, Sweeper and Scraper, First Ward, $10 per week.

John Koch, 2210 Canton avenue, Sweeper and Scraper, First Ward, $10 per week.

S. Leonson, 911 E. Lombard street, Sweeper and Scraper, Fourth Ward, $10 per week.

John Dash, 517 S. Caroline street, Sweeper and Scraper, Second Ward, $10 per week.

Chas. Slitzer, 507 S. Chapel street, Sweeper and Scraper, Second Ward, $10 per week.

Jacob Trautwine, 1617 E. Lombard street, Sweeper and Scraper, Third Ward, $10 per week.

Anthony Zemick, 105 S. Eutaw street, Sweeper and Scraper, Ninth Ward, $10 per week.

M. R. Goodman, 605 N. Wolfe street, Sweeper and Scraper, Fifth Ward, $10 per week.

Adam Keiser, 612 S. Wolfe street, Sweeper and Scraper, Second Ward, $10 per week.

Robert Skillman, 23 N. Ann street, Sweeper and Scraper, Third Ward, $10 per week.

Wm. A. Lovell, 721 S. Durham street, Sweeper and Scraper, Second Ward, $10 per week.

John W. Sleeger, 423 E. Chase street, Sweeper and Scraper, Eighth Ward, $10 per week.

*Street Cleaning Department.—Continued.*

Frederick Brandt, 1123 Granby street, Sweeper and Scraper, Fourth Ward, $10 per week.

John Ott, 2400 Fait avenue, Sweeper and Scraper, First Ward, $10 per week.

Nicholas Volz, 723 S. Broadway, Sweeper and Scraper, Second Ward, $10 per week.

John Crawford, 2025 Canton avenue, Sweeper and Scraper, Second Ward, $10 per week.

Walter Rodgers, 1816 E. Lombard street, Sweeper and Scraper, Third Ward, $10 per week.

Hy. Aull, 1169 E. Lombard street, Sweeper and Scraper, Fourth Ward, $10 per week.

Hy. Amberg, 720 S. Rose street, Sweeper and Scraper, First Ward. $10 per week.

Jacob Seifert, 1107 Streeper street, Sweeper and Scraper, First Ward, $10 per week.

George F. Allen, 3106 Dillon street, Sweeper and Scraper, First Ward, $10 per week.

George W. Krauk, 2525 Foster avenue, Sweeper and Scraper, First Ward, $10 per week.

Frank Brown, 1135 Pinkney street, Sweeper and Scraper, Eighteenth Ward, $10 per week.

Wm. Kraig, 325 S. Spring street, Sweeper and Scraper, Third Ward, $10 per week.

Jacob Neal, 3028 Hudson street, Sweeper and Scraper, First Ward, $10 per week.

Andrew Hammer, 522 Holzman's court, Sweeper and Scraper, First Ward, $10 per week.

Chas. Feichter, 415 S. Spring street, Sweeper and Scraper, Second Ward, $10 per week.

Wm. Williamson, 2949 Hudson street, Sweeper and Scraper, First Ward, $10 per week.

Joshua Mitchell, 19 N. Caroline street, Sweeper and Scraper, Third Ward, $10 per week.

*Street Cleaning Department.—Continued.*

Albert Stengel, 28 S. Washington street, Sweeper and Scraper, Third Ward, $10 per week.

(Code of 1893, Sec. 222, Art. 48.)

A. Andrathy, 6 S. Central avenue, Street Cart, Third Ward, $18 per week.

Samuel Wrightson, 819 Grove street, Street Cart, First Ward, $18 per week.

John W. Green, 613 Port street, Street Cart, First Ward, $18 per week.

A. C. Hamill, 222 N. Caroline street, Street Cart, Fourth Ward, $18 per week.

Adam Seibert, 205 S. Chester street, Street Cart, Third Ward, $18 per week.

Frank Hoefling, 125 S. Durham street, Street Cart, Third Ward, $18 per week.

Joseph Vogel, 935 Canton avenue, Street Cart, Second Ward, $18 per week.

Abraham Harris, 249 N. Exeter street, Street Cart, Fourth Ward, $18 per week.

Harris Farber, 117 S. Spring street, Street Cart, Third Ward, $18 per week.

Frederick James, 720 S. Ann street, Street Cart, Second Ward, $18 per week.

Henry Cook, 214 S. Caroline street, Garbage Cart, Third Ward, $18 per week.

Frederick Wolfe, 1030 Granby street, Garbage Cart, Fourth Ward, $18 per week.

J. Lucas, 1120 Comet street, Garbage Cart, Fourth Ward, $18 per week.

C. M. Hartman, 1519 E. Lombard street, Garbage Cart, Third Ward, $18 per week.

Peter A. Brill, 1722 Lancaster street, Garbage Cart, Second Ward, $18 per week.

Peter Bauer, 205 S. Chester street, Garbage Cart, First Ward, $18 per week.

Frank Seidl, 1816 E. Lombard street, Garbage Cart, Third Ward, $18 per week.

John Beyer, 601 Rose street, Garbage Cart, First Ward, $18 per week.

Chas. Rainer, 2545 Eastern avenue, Garbage Cart, First Ward, $18 per week.

Austin Hilewicz, 1720 Aliceanna street, Garbage Cart, Second Ward, $18 per week.

L. Jacobson, 425 S. Central avenue, Garbage Cart, Second Ward, $18 per week.

John Michael, 523 S. Ann street, Garbage Cart, Second Ward, $18 per week.

Christian Schreiner, 517 S. Bethel street, Garbage Cart, Second Ward, $18 per week.

John Beeks, 2306 Essex street, Garbage Cart, First Ward, $18 per week.

Jared Sooey, 804 W. Baltimore street, Garbage Cart, Thirteenth Ward, $18 per week.

Herman Hilbert, 1126 Chesapeake street, Garbage Cart, First Ward, $18 per week.

Geo. W. Hughes, 1826 E. Pratt street, Garbage Cart, Third Ward, $18 per week.

John Heiser, 2224 Eastern avenue, Garbage Cart, First Ward, $18 per week.

Christian Klehm, 1109 Chesapeake street, Garbage Cart, First Ward, $18 per week.

Robert Arvey, 901 Canton street, Garbage Cart, First Ward, $18 per week.

Edward F. Andrews, 312 S. Exeter street, Scavenger, Fourth Ward, $18 per week.

John Harris, 1530 E. Fayette street, Sweeper and Scraper, Third Ward, $10 per week.

Wm. L. Gibson, 212 N. Central avenue, Sweeper and Scraper, Fifth Ward, $10 per week.

*Street Cleaning Department.—Continued.*

Wm. Dungee, 310 Forrest street, Sweeper and Scraper, Fifth Ward, $10 per week.

Nelson Dorsey, 1164 McElderry street, Sweeper and Scraper, Fifth Ward, $10 per week.

Chas. Sayles, 609 N. Spring street, Sweeper and Scraper, Fifth Ward, $10 per week.

James R. Ralph, 1430 Fairmount avenue, Sweeper and Scraper, Fourth Ward, $10 per week.

George Green, 1128 Comet street, Sweeper and Scraper, Fourth Ward, $10 per week.

John H. Coleman, 228 Forrest street, Sweeper and Scraper, Fourth Ward, $10 per week.

Wm. Slocum, 1416 Jefferson street, Sweeper and Scraper, Sixth Ward, $10 per week.

Eugene Hilliard, 428 N. Spring street, Sweeper and Scraper, Sixth Ward, $10 per week.

Geo. W. Johnson, 2136 McElderry street, Sweeper and Scraper, Sixth Ward, $10 per week.

Joseph Roberts, 216 Montford avenue, Sweeper and Scraper, Sixth Ward, $10 per week.

Edward Scranage, 1510 Bank street, Sweeper and Scraper, Third Ward, $10 per week.

Mortimer Brown, 804 McDonough street, Sweeper and Scraper, Seventh Ward, $10 per week.

Richard Chapman, 1211 N. Spring street, Sweeper and Scraper, Seventh Ward, $10 per week.

Wm. Chambers, 632 W. Montgomery street, Sweeper and Scraper, Sixteenth Ward, $10 per week.

John H. Adkins, 9 Wyoming street, Sweeper and Scraper, Ninth Ward, $10 per week.

Edward Black, 1526 Latrobe street, Sweeper and Scraper, Eighth Ward, $10 per week.

Nathaniel Braxton, 1822 Montrose street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

*Street Cleaning Department.—Continued.*

James W. Dockins, 1238 Edward street, Street Cart, Fifth Ward, $18 per week.

Isaac Johnson, 721 N. Durham street, Street Cart, Fifth Ward, $18 per week.

Thomas Green, 14 S. Bethel street, Street Cart, Third Ward, $18 per week.

Edward Anderson, 501 N. Central avenue, Street Cart, Fifth Ward, $18 per week.

Wm. Henson, 1302 Riggs avenue, Street Cart, Twentieth Ward, $18 per week.

Thomas Smith, 922 Mason alley, Street Cart, Eighth Ward, $18 per week.

John Johnson, 1003 N. Durham street, Garbage Cart, Seventh Ward, $18 per week.

Chas. A. Jones, 864 Park avenue, Garbage Cart, Eighteenth Ward, $18 per week.

John T. Stricklin, 829 Boyd street, Sweeper and Scraper, Thirteenth Ward, $10 per week.

John W. Freeland, 839 Linden avenue, Sweeper and Scraper, Eleventh Ward, $10 per week.

Wm. H. Richardson, 618 N. Spring street, Sweeper and Scraper, Fifth Ward, $10 per week.

John Tyson, 859 Raborg street, Sweeper and Scraper, Thirteenth Ward, $10 per week.

Henry Raynor, 706 E. Lombard street, Sweeper and Scraper, Ninth Ward, $10 per week.

Andrew Thompson, 721 Waesche street, Sweeper and Scraper, Thirteenth Ward, $10 per week.

George A. Lee, 2103 Division street, Sweeper and Scraper, Twelfth Ward, $10 per week.

Wm. H. Wilson, 742 Waesche street, Sweeper and Scraper, Tenth Ward, $10 per week.

Alex. Stephenson, 818 McDonough street, Sweeper and Scraper, Seventh Ward, $10 per week.

*Street Cleaning Department.—Continued.*

Wm. H. Howard, 1512 Ashland avenue, Sweeper and Scraper, Seventh Ward, $10 per week.

Arthur Williams, 703 Bruce street, Sweeper and Scraper, Twentieth Ward, $10 per week.

Wm. H. Chase, 227 N. Dallas street, Sweeper and Scraper, Third Ward, $10 per week.

Isaac Walker, 677 Vine street, Sweeper and Scraper, Tenth Ward, $10 per week.

Geo. Tuckson, 416 Courtland street, Sweeper and Scraper, Ninth Ward, $10 per week.

Perry Wilson, 902 Harden's court, Sweeper and Scraper, Fifteenth Ward, $10 per week.

John Marshall, 1209 Raborg street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

Gilbert Gray, 127 Welcome alley, Sweeper and Scraper, Fifteenth Ward, $10 per week.

James Boone, 140 W. Hill street, Sweeper and Scraper, Fifteenth Ward, $10 per week.

Joseph Collins, 1406 Division street, Sweeper and Scraper, Twelfth Ward, $10 per week.

Vance Murray, 838 Vine street, Sweeper and Scraper, Thirteenth Ward, $10 per week.

Jacob Fowler, 106 E. Mulberry street, Sweeper and Scraper, Ninth Ward, $10 per week.

Aaron Page, 1716 Sherman Place, Sweeper and Scraper, Eighth Ward, $10 per week.

Samuel D. Parker, 204 Bruce street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

Andrew Chester, 714 Eden street court, Sweeper and Scraper, Fourth Ward, $10 per week.

Wm. A. Brooks, 230 N. Arlington avenue, Sweeper and Scraper, Fourteenth Ward, $10 per week.

Wm. E. Driver, 802 Vine street, Sweeper and Scraper, Thirteenth Ward, $10 per week.

*Street Cleaning Department.—Continued.*

George Smith, 108 Diamond street, Sweeper and Scraper, Tenth Ward, $10 per week.

Jas. E. C. Brown, 520 W. Cross street, Sweeper and Scraper, Eighteenth Ward, $10 per week.

Charles Jones, 1710 Sherman Place, Sweeper and Scraper, Eighth Ward, $10 per week.

Henry Carter, 359 North street, Sweeper and Scraper, Ninth Ward, $10 per week.

Eli Wilson, 671 Pierce street, Street Cart, Tenth Ward, $18 per week.

George Hammond, 406 Short street, Street Cart, Fourth Ward, $18 per week.

Chas. Lloyd, 1406 Barclay street, Street Cart, Twenty-second Ward, $18 per week.

Robert H. Waters, 1428 E. Lexington street, Street Cart, Fourth Ward, $18 per week.

Wm. H. Garrett, 610 Elbow lane, Street Cart, Sixteenth Ward, $18 per week.

Lucian Harris, 800 Pierce street, Street Cart, Tenth Ward, $18 per week.

Geo. W. Keys, 16 W. Chase street, Street Cart, Eighth Ward, $18 per week.

Alex. Hopkins, 423 Henrietta street, Street Cart, Sixteenth Ward, $18 per week.

Samuel Cohen, 205 Bath street, Street Cart, Ninth Ward, $18 per week.

Alex. Pinkney, 210 W. Hamburg street, Street Cart, Sixteenth Ward, $18 per week.

Horace Cottrill, 861 Vine street, Street Cart, Thirteenth Ward, $18 per week.

John Blair, 841 Linden avenue, Street Cart, Eleventh Ward, $18 per week.

John Campbell, 113 E. Mulberry street, Street Cart, Ninth Ward, $18 per week.

*Street Cleaning Department.—Continued.*

Robert Page, 1108 Etting street, Street Cart, Ninth Ward, $18 per week.

Moses Cosey, 1412 E. Lexington street, Street Cart, Fourth Ward, $18 per week.

Walter Summers, 210 Bath street, Street Cart, Ninth Ward, $18 per week.

Nicholas Tolson, 613 Water street, Street Cart, Ninth Ward, $18 per week.

John Dashields, 873 Raborg street, Street Cart, Thirteenth Ward, $18 per week.

Geo. Cromwell, 1011 N. Durham street, Street Cart, Seventh Ward, $18 per week.

Wm. Teakle, 950 N. Howard street, Street Cart, Eighth Ward, $18 per week.

Jarris Griffin, 746 Ryan street, Street Cart, Eighteenth Ward, $18 per week.

(Code of 1893, Sec. 222, Art. 48.)

Wm. A. Stewart, 1502 Rutter street, Sweeper and Scraper, Twentieth Ward, $10 per week.

J. A. Gallagher, 825 S. Charles street, Sweeper and Scraper, Fifteenth Ward, $10 per week.

J. Thompson, 2137 Hanover street, Sweeper and Scraper, Seventeenth Ward, $10 per week.

C. Prager, 812 Little Greene street, Sweeper and Scraper, Sixteenth Ward, $10 per week.

B. F. Stockett, 1628 McHenry street, Sweeper and Scraper, Fourteenth Ward, $10 per week.

R. T. Gittings, 1325 Hollins street, Sweeper and Scraper, Fourteenth Ward, $10 per week.

L. Forrester, 1236 S. Eutaw street, Sweeper and Scraper, Eighteenth Ward, $10 per week.

J. Baker, 134 W. West street, Sweeper and Scraper, Seventeenth Ward, $10 per week.

*Street Cleaning Department.—Continued.*

James W. Jones, 117 S. Gilmor street, Sweeper and Scraper, Fourteenth Ward, $10 per week.

W. Bailey, 1118 Riverside avenue, Sweeper and Scraper, Seventeenth Ward, $10 per week.

L. F. Hickman, 19 E. Williamson street, Sweeper and Scraper, Fifteenth Ward, $10 per week.

A. Hippler, 515 S. Green street, Sweeper and Scraper, Sixteenth Ward, $10 per week.

G. W. Sadler, 1004 Light street, Sweeper and Scraper, Fifteenth Ward, $10 per week.

J. Hagan, 817 Warner street, Sweeper and Scraper, Sixteenth Ward, $10 per week.

Henry Lessner, 315 St. Paul street, Sweeper and Scraper, Ninth Ward, $10 per week.

J. Straub, 107 W. Randall street, Sweeper and Scraper, Fifteenth Ward, $10 per week.

H. Bowersox, 851 St. Peter street, Sweeper and Scraper, Eighteenth Ward, $10 per week.

Geo. W. Vansant, 770 St. Peter street, Sweeper and Scraper, Eighteenth Ward, $10 per week.

P. J. Campbell, 422 W. Conway street, Sweeper and Scraper, Sixteenth Ward, $10 per week.

G. E. Neveker, 46 E. Hamburg street, Sweeper and Scraper, Fifteenth Ward, $10 per week.

Chas. Matthias, 923 S. Paca street, Sweeper and Scraper, Sixteenth Ward, $10 per week.

J. Pensmith, 913 Ridgely street, Sweeper and Scraper, Eighteenth Ward, $10 per week.

G. W. Della, 1144 Hanover street, Sweeper and Scraper, Seventeenth Ward, $10 per week.

H. Bodenbender, 119 E. Clement street, Sweeper and Scraper, Seventeenth Ward, $10 per week.

W. E. Johnson, 1924 Hanover street, Sweeper and Scraper, Seventeenth Ward, $10 per week.

*Street Cleaning Department.—Continued.*

S. E. Archibald, 2145 Hanover street, Sweeper and Scraper, Seventeenth Ward, $10 per week.

John McCormick, St. Peter and Cross streets, Sweeper and Scraper, Eighteenth Ward, $10 per week.

(Code of 1893, Sec. 221, Art. 48.)

L. Remmer, 1909 Hanover street, Street Cart, Seventeenth Ward, $18 per week.

H. Bennett, 435 Clement street, Street Cart, Seventeenth Ward, $18 per week.

L. Melton, 14 W. Henrietta street, Street Cart, Fifteenth Ward, $18 per week.

T. Bowersox, 604 Parkin street, Street Cart, Eighteenth Ward, $18 per week.

J. Levin, 118 Dover street, Street Cart, Fifteenth Ward, $18 per week.

C. Vahle, 1170 Carroll street, Street Cart, Eighteenth Ward, $18 per week.

F. Jacob, 931 Leadenhall street, Street Cart, Sixteenth Ward, $18 per week.

E. Marshall, 915 Bevan street, Street Cart, Sixteenth Ward, $18 per week.

T. C. Hemling, 769 St. Peter street, Street Cart, Eighteenth Ward, $18 per week.

J. Mitchell, 1421 Hanover street, Street Cart, Seventeenth Ward, $18 per week.

Hoby Heline, 1835 Hanover street, Street Cart, Seventeenth Ward, $18 per week.

Chas. B. Hindman, 9 W. Montgomery street, Street Cart, Fifteenth Ward, $18 per week.

W. Treulieb, 119 S. Pulaski street, Street Cart, Eighteenth Ward, $18 per week.

W. Weaver, 1952 Hanover street, Garbage Cart, Seventeenth Ward, $18 per week.

*Street Cleaning Department.—Continued.*

W. G. Ortman, 901 Bevan street, Garbage Cart, Sixteenth Ward, $18 per week.

R. Kimball, 1044 James alley, Garbage Cart, Fifteenth Ward, $18 per week.

J. Allen, 1528 Burrows street, Garbage Cart, Seventeenth Ward, $18 per week.

W. Huston, 100 Front street, Garbage Cart, Fourth Ward, $18 per week.

J. Strupp, 40 E. Church street, Garbage Cart, Fifteenth Ward, $18 per week.

J. Hamlen, 1015 William street, Garbage Cart, Fifteenth Ward, $18 per week.

J. Dashields, 1242 Riverside avenue, Garbage Cart, Seventeenth Ward, $18 per week.

Gus. Krause, 719 W. Hamburg street, Garbage Cart, Eighteenth Ward, $18 per week.

J. H. Martin, 425 E. Hughes street, Garbage Cart, Fifteenth Ward, $18 per week.

G. W. Foos, 650 Conway street, Garbage Cart, Sixteenth Ward, $18 per week.

W. Allen, 423 Sanders street, Garbage Cart, Seventeenth Ward, $18 per week.

Chas. Collins, 1820 Bank street, Garbage Cart, Second Ward, $18 per week.

W. Johnson, 1517 Beason street, Garbage Cart, Seventeenth Ward, $18 per week.

J. Barrett, 2111 Hanover street, Garbage Cart, Seventeenth Ward, $18 per week.

J. Tucker, 1456 Patapsco street, Garbage Cart, Fourth Ward, $18 per week.

W. Keiholtz, 1021 S. Paca street, Garbage Cart, Eighteenth Ward, $18 per week.

C. Christ, 115 S. Gilmor street, Garbage Cart, Fourteenth Ward, $18 per week.

*Street Cleaning Department.—Continued.*

M. F. Rumney, 837 Mangold street, Garbage Cart, Eighteenth Ward, $18 per week.

L. M. Covell, 1406 W. Pratt street, Garbage Cart, Fourteenth Ward, $18 per week.

O. Kurtz, 1124 W. Pratt street, Garbage Cart, Fourteenth Ward, $18 per week.

J. F. Courts, 949 W. Lexington street, Garbage Cart, Thirteenth Ward, $18 per week.

Geo. F. Shipley, 786 W. Cross street, Garbage Cart, Eighteenth Ward, $18 per week.

W. T. Wilson, 208 S. Gilmor street, Garbage Cart, Fourteenth Ward, $18 per week.

D. Wolfe, 630 W. Cross street, Garbage Cart, Eighteenth Ward, $18 per week.

Wm. H. Wilson, 742 Waesche street, Garbage Cart, Tenth Ward, $18 per week.

George Bowers, 929 Denver street, Garbage Cart, Eighteenth Ward, $18 per week.

David Groves, 133 S. Poppleton street, Garbage Cart, Thirteenth Ward, $18 per week.

(Code of 1893, Sec. 222, Art. 48.)

James M. Seward, 442 St. Mary street, Sweeper and Scraper, Eleventh Ward, $10 per week.

E. W. Vaughn, 442 St. Mary street, Sweeper and Scraper, Eleventh Ward, $10 per week.

Chas. Davage, 424 W. Biddle street, Sweeper and Scraper, Eleventh Ward, $10 per week.

Chas. Dorsey, 605 W. Hoffman street, Sweeper and Scraper, Eleventh Ward, $10 per week.

Lloyd Garrett, 545 W. Hoffman street, Sweeper and Scraper, Eleventh Ward, $10 per week.

Joseph B. Matthews, 439 Little Monument street,

*Street Cleaning Department.—Continued.*

Sweeper and Scraper, Eleventh Ward, $10 per week.

George C. Warren, 802 Plum alley, Sweeper and Scraper, Fifteenth Ward, $10 per week.

Job Harris, 835 Raborg street, Sweeper and Scraper, Thirteenth Ward, $10 per week.

Wm. R. Wheatley, 895 Boyd street, Sweeper and Scraper, Thirteenth Ward, $10 per week.

Hy. Richardson, 247 N. Arlington avenue, Sweeper and Scraper, Fourteenth Ward, $10 per week.

William Ennis, 204 N. Arlington avenue, Sweeper and Scraper, Fourteenth Ward, $10 per week.

Alex. Gunn, 809 Harmony lane, Sweeper and Scraper, Tenth Ward, $10 per week.

George Hoover, 135 Jew alley, Sweeper and Scraper, Tenth Ward, $10 per week.

Edward Green, 752 Pierce street, Sweeper and Scraper, Tenth Ward, $10 per week.

Frank Barber, 1524 Riggs avenue, Sweeper and Scraper, Nineteenth Ward, $10 per week.

Chas. Anderson, 1141 Woodyear street, Sweeper and Scraper, Twentieth Ward, $10 per week.

Samuel Triggs, 1627 Brunt street, Sweeper and Scraper, Twelfth Ward, $10 per week.

George Berry, 518 Bloom street, Sweeper and Scraper, Twelfth Ward, $10 per week.

Andrew Liggins, 339 Bruce street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

George Bishop, 903 Walnut street, Sweeper and Scraper, Sixteenth Ward, $10 per week.

Edward Blunt, 1349 Calhoun street, Sweeper and Scraper, Twentieth Ward, $10 per week.

Blake Downs, 532 W. Preston street, Sweeper and Scraper, Eleventh Ward, $10 per week.

*Street Cleaning Department.--Continued.*

John B. Leach, 1127 Fulton avenue, Sweeper and Scraper, Nineteenth Ward, $10 per week.

George W. Stockes, 2029 Brunt street, Sweeper and Scraper, Twelfth Ward, $10 per week.

(Code of 1893, Sec. 222, Art. 48.)

John Blake, 405 Parrish alley, Street Cart, Nineteenth Ward, $18 per week.

Chas. Robinson, 702 Saratoga street, Street Cart, Tenth Ward, $18 per week.

Joseph Watson, 108 Boyd street, Street Cart, Fourteenth Ward, $18 per week.

Samuel Reason, 639 Haw street, Street Cart, Sixteenth Ward, $18 per week.

W. N. Hackett, 210 W. York street, Street Cart, Fifteenth Ward, $18 per week.

James Buchannan, 1516 Calhoun street, Street Cart, Twentieth Ward, $18 per week.

Wm. T. Simpson, 1710 Etting street, Street Cart, Twelfth Ward, $18 per week.

D. G. Hill, 829 Hampster street, Street Cart, Twelfth Ward, $18 per week.

Perry P. Clark, 552 W. Preston street, Garbage Cart, Eleventh Ward, $18 per week.

Leroy Bailey, 532 Moore street, Garbage Cart, Eleventh Ward, $18 per week.

Henry Butler, 802 Woodyear street, Garbage Cart, Twentieth Ward, $18 per week.

Daniel Jeffries, 1720 Sherman Place, Garbage Cart, Eighth Ward, $18 per week.

Edward Henneman, 228 S. Parkin street, Garbage Cart, Thirteenth Ward, $18 per week.

W. F. Cramblett, 863 W. Franklin street, Garbage Cart, Tenth Ward, $18 per week.

*Street Cleaning Department.—Continued.*

Joseph Longo, 525 W. Lexington street, Garbage Cart, Tenth Ward, $18 per week.

John P. Killian, 783 W. Saratoga street, Garbage Cart, Tenth Ward, $18 per week.

F. C. Williams, 1605 Saratoga street, Garbage Cart, Nineteenth Ward, $18 per week.

William Sears, 907 Elm Place, Garbage Cart, Eleventh Ward, $18 per week.

W. G. Cramblett, 736 Pierce street, Garbage Cart, Tenth Ward, $18 per week.

James W. Boone, 907 Leadenhall street, Garbage Cart, Sixteenth Ward, $18 per week.

James Bias, 528 Oxford street, Garbage Cart, Eleventh Ward, $18 per week.

Robert McKaig, 511 N. Fremont street, Garbage Cart, Tenth Ward, $18 per week.

Conrad Lehr, 900 W. Lexington street, Garbage Cart, Thirteenth Ward, $18 per week.

James Myers, 933 Morris street, Garbage Cart, Eleventh Ward, $18 per week.

Orvil Price, 423 St. Mary's street, Garbage Cart, Eleventh Ward, $18 per week.

Frederick Vogel, 582 W. Biddle street, Garbage Cart, Eleventh Ward, $18 per week.

Chas. Martin, 632 Bruce street, Garbage Cart, Tenth Ward, $18 per week.

Richard Simms, 534 Walnut street, Garbage Cart, Eleventh Ward, $18 per week.

John Anderson, 862 Park avenue, Garbage Cart, Eighth Ward, $18 per week.

George Schaefer, 1056 W. Baltimore street, Garbage Cart, Fourteenth Ward, $18 per week.

Albert Bangs, 823 Franklin street, Garbage Cart, Tenth Ward, $18 per week.

I. C. Brown, 1121 Woodyear street, Garbage Cart, Nineteenth Ward, $18 per week.

George Brown, 632 Raborg street, Garbage Cart, Tenth Ward, $18 per week.

Alfred R. Glover, 508 Ogston street, Garbage Cart, Eleventh Ward, $18 per week.

David J. Boyle, 1312 Hunter street, Garbage Cart, Eighth Ward, $18 per week.

(Code of 1893, Sec. 221, Art. 48.)

James T. Wharton, 1821 Oakley street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

Oliver Dilworth, 809 Franklin street, Sweeper and Scraper, Tenth Ward, $10 per week.

John Lehman, 1247 Cross street, Sweeper and Scraper, Eighteenth Ward, $10 per week.

Lawrence W. Kilburne, 1551 Newington Place, Sweeper and Scraper, Twentieth Ward, $10 per week.

Samuel Henderson, 414 N. Fremont street, Sweeper and Scraper, Tenth Ward, $10 per week.

John A. Mask, 775 Mulberry street, Sweeper and Scraper, Tenth Ward, $10 per week.

Edward Bufter, 1711 N. Carey street, Sweeper and Scraper, Twelfth Ward, $10 per week.

J. A. Richards, 2117 Lexington street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

H. Kirchenbauer, 449 Grindell street, Sweeper and Scraper, Fifteenth Ward, $10 per week.

Wm. C. Wright, 1216 Argyle avenue, Sweeper and Scraper, Twentieth Ward, $10 per week.

Conrad Kerber, 1525 Pennsylvania avenue, Sweeper and Scraper, Twelfth Ward, $10 per week.

Henry Hunt, 509 N. Mount street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

*Street Cleaning Department.—Continued.*

William Brooks, 1363 N. Stricker street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

Wm. Crooks, 1113 N. Mount street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

C. F. Hines, 1122 N. Fulton avenue, Sweeper and Scraper, Nineteenth Ward, $10 per week.

Clarence Handy, 106 S. Fulton avenue, Fourteenth Ward, $10 per week.

Casper Ledern, 6 Marsh Market Space, Sweeper and Scraper, Ninth Ward, $10 per week.

Wm. Walter, 48 Marsh Market Space, Sweeper and Scraper, Ninth Ward, $10 per week.

Geo. W. Moffett, 902 Hollins street, Sweeper and Scraper, Thirteenth Ward, $10 per week.

Chas. Wegman, 519 Campbell street, Sweeper and Scraper, Eighteenth Ward, $10 per week.

Jeff. Fenwick, 1507 N. Stricker street, Sweeper and Scraper, Twentieth Ward, $10 per week.

W. F. Riston, 1114 Saratoga street, Sweeper and Scraper, Fourteenth Ward, $10 per week.

S. L. Southerd, 302 N. Gilmor street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

Edward Dennett, 1551 Newington Place, Sweeper and Scraper, Twentieth Ward, $10 per week.

W. Snyder, 1621 Bruce street, Sweeper and Scraper, Twentieth Ward, $10 per week.

John Schwind, 804 Mulberry street, Sweeper and Scraper, Tenth Ward, $10 per week.

(Code of 1893, Sec. 222, Art. 48.)

Peter Gibbon, 825 N. Mount street, Street Cart, Nineteenth Ward, $18 per week.

John Biggs, 1345 N. Carey street, Street Cart, Twentieth Ward, $18 per week.

*Street Cleaning Department.—Continued.*

John Derrenberger, 2104 Lexington street, Street Cart, Nineteenth Ward, $18 per week.

J. W. Grove, 1603 N. Mount street, Street Cart, Twentieth Ward, $18 per week.

W. H. Sloffer, 1925 White street, Street Cart, Nineteenth Ward, $18 per week.

Wm. Waterman, 1357 N. Fremont street, Street Cart, Twentieth Ward, $18 per week.

W. Loudenslager, 2119 Vine street, Street Cart, Nineteenth Ward, $18 per week.

George Bennett, 242 Arlington avenue, Street Cart, Fourteenth Ward, $18 per week.

C. D. Foos, 2101 Pennsylvania avenue, Street Cart, Twelfth Ward, $18 per week.

John H. Baudel, 2213 Pennsylvania avenue, Street Cart, Twelfth Ward, $18 per week.

G. J. Snoops, 1233 Hollins street, Street Cart, Fourteenth Ward, $18 per week.

Geo. G. Spriggs, 206 S. Carey street, Street Cart, Eighteenth Ward, $18 per week.

Robert L. Wain, 107 N. Poppleton street, Street Cart, Thirteenth Ward, $18 per week.

Chas. Zimmerman, 1837 Pennsylvania avenue, Garbage Cart, Twelfth Ward, $18 per week.

B. H. Reynolds, 1922 Harlem avenue, Garbage Cart, Nineteenth Ward, $18 per week.

G. W. Brickerd, 7 N. Gilmor street, Garbage Cart, Fourteenth Ward, $18 per week.

J. W. McCormick, 616 Gold street, Garbage Cart, Twelfth Ward, $18 per week.

Chas. Scheib, 1020 N. Carrollton avenue, Garbage Cart, Twentieth Ward, $18 per week.

H. Vennick, 226 Harrison street, Garbage Cart, Ninth Ward, $18 per week.

*Street Cleaning Department.—Continued.*

Chas. Hayes, 562 Baker street, Garbage Cart, Twelfth Ward, $18 per week.

Jos. Skotarski, 1723 Lancaster street, Garbage Cart, Second Ward, $18 per week.

E. S. Johnson, 509 N. Mount street, Garbage Cart, Nineteenth Ward, $18 per week.

C. F. Beyer, 2348 Stockton street, Garbage Cart, Twelfth Ward, $18 per week.

W. N. Whitney, 1009 Lexington street, Garbage Cart, Fourteenth Ward, $18 per week.

W. B. Williams, 568 Baker street, Garbage Cart, Twelfth Ward, $18 per week.

John Damukatis, 211 Camden street, Garbage Cart, Ninth Ward, $18 per week.

Frank Meeks, 422 N. Poppleton street, Garbage Cart, Thirteenth Ward, $18 per week.

Odie Conoway, 1331 Hillman street, Garbage Cart, Eighth Ward, $18 per week.

Gibson E. Patterson, 1331 Hillman street, Garbage Cart, Eighth Ward, $18 per week.

John H. Powers, 117 N. Mount street, Garbage Cart, Nineteenth Ward, $18 per week.

Abraham Meyerberg, 105 Harrison street, Garbage Cart, Ninth Ward, $18 per week.

Philip McClennan, 1603 N. Fulton avenue, Garbage Cart, Twentieth Ward, $18 per week.

George Kelly, 1615 N. Carey street, Garbage Cart, Twentieth Ward, $18 per week.

J. K. Bounds, 1446 N. Carey street, Garbage Cart, Twentieth Ward, $18 per week.

J. H. Cutcher, 2149 Lexington street, Garbage Cart, Nineteenth Ward, $18 per week.

H. L. LeCompte, 2103 Lexington street, Garbage Cart, Nineteenth Ward, $18 per week.

*Street Cleaning Department.—Continued.*

F. L. Kilmer, 229 N. Gilmor street, Garbage Cart, Nineteenth Ward, $18 per week.

George Frayer, 225 N. Schroeder street, Garbage Cart, Thirteenth Ward, $18 per week.

W. L. Underwood, 1607 Lorman street, Garbage Cart, Nineteenth Ward, $18 per week.

David Wallace, 604 Brune street, Garbage Cart, Twentieth Ward, $18 per week.

Thomas Simmons, 1709 N. Calhoun street, Garbage Cart, Twentieth Ward, $18 per week.

S. R. Bradburn, 941 W. Lombard street, Garbage Cart, Thirteenth Ward, $18 per week.

(Code of 1893, Sec. 221, Art. 48.)

Alonzo F. Baldwin, 2830 Catherine street, Sweeper and Scraper, Twenty-second Ward, $10 per week.

Wm. C. Livingston, 1930 Union avenue, Sweeper and Scraper, Twenty-second Ward, $10 per week.

Thomas Barton, 8 Stafford street, Sweeper and Scraper, Twenty-first Ward, $10 per week.

George P. Gales, 11 Gorsuch avenue, Sweeper and Scraper, Twenty-second Ward, $10 per week.

Frank M. Coale, Carroll avenue, "Annex," Sweeper and Scraper, Twenty-first Ward, $10 per week.

Frank Ball, 2711 Huntingdon avenue, Sweeper and Scraper, Twenty-second Ward, $10 per week.

Jefferson Smallwood, 47 Glenn Edward's avenue, Sweeper and Scraper, Twenty-second Ward, $10 per week.

Samuel C. Mather, 555 Merryman's lane, Sweeper and Scraper, Twenty-second Ward, $10 per week.

Horace Stiffler, 22 Railroad avenue, Sweeper and Scraper, Twenty-first Ward, $10 per week.

*Street Cleaning Department.—Continued.*

James H. Sheppard, 2863 Fulton avenue, Sweeper and Scraper, Twenty-first Ward, $10 per week.

Edward L. Gorden, 2856 Lanvale street, Sweeper and Scraper, Twenty-first Ward, $10 per week.

Chas. Steigerwald, 422 Turner Place, Sweeper and Scraper, Twenty-second Ward, $10 per week.

Geo. Pfeiffer, 105 Third avenue, Sweeper and Scraper, Twenty-first Ward, $10 per week.

John T. Nally, 2028 Lanvale street, Sweeper and Scraper, Twenty-first Ward, $10 per week.

Geo. W. Shipley, 101 Baldwin street, Sweeper and Scraper, Twenty-first Ward, $10 per week.

Thomas Ruby, 40 Railroad avenue, Sweeper and Scraper, Twenty-first Ward, $10 per week.

John H. Reinhold, 11 Mt. Olive, Sweeper and Scraper, Twenty-first Ward, $10 per week.

(Code of 1893, Sec. 222, Art. 48.)

Nathan C. Swan, 736 Third avenue, Street Cart, Twenty-second Ward, $18 per week.

John H. Quick, Oak Hall (Liberty road), Street Cart, Twenty-first Ward, $18 per week.

John C. Ford, 432 W. Twenty-third street, Street Cart, Twenty-second Ward, $18 per week.

Bernard McKune, 38 Gorsuch avenue, Street Cart, Twenty-second Ward, $18 per week.

Zepheniah Parks, 48 Druid avenue, Street Cart, Twenty-first Ward, $18 per week.

Jerome McDowell, 631 Jefferson street, Street Cart, Twenty-second Ward, $18 per week.

Samuel R. Kemp, 2814 Francis street, Street Cart, Twenty-first Ward, $18 per week.

Lewis Fowler, 2331 Druid Hill avenue, Street Cart, Twenty-first Ward, $18 per week.

*Street Cleaning Department.—Continued.*

Chas. W. Steinwedel, 844 Frederick avenue, Garbage Cart, Twenty-first Ward, $18 per week.

Wm. J. Cather, 2855 W. Lanvale street, Garbage Cart, Twenty-first Ward, $18 per week.

Moses Parrish, 322 Falls road, Garbage Cart, Twenty-first Ward, $18 per week.

John Shauck, 305 Cox's avenue, Garbage Cart, Twenty-first Ward, $18 per week.

Geo. W. Fisher, 211 Falls road (Hampden), Garbage Cart, Twenty-second Ward, $18 per week.

Gustavus Clark, Madison and Liberty streets, Garbage Cart, Twenty-second Ward, $18 per week.

Alonzo S. Walstrum, 2705 Huntingdon avenue, Garbage Cart, Twenty-second Ward, $18 per week.

Philip F. Justice, 136 Chestnut avenue, Garbage Cart, Twenty-second Ward, $18 per week.

Thatcher Bell, 38 Gutman avenue, Garbage Cart, Twenty-second Ward, $18 per week.

Wm. H. Rauck, 7 Harrison street, Garbage Cart, Twenty-second Ward, $18 per week.

Frederick Waldeck, Belair avenue, Garbage Cart, Twenty-second Ward, $18 per week.

Chris. Englehardt, 450 W. Twenty-fifth street, Garbage Cart, Twenty-second Ward, $18 per week.

Hy. Schildwachter, Walbrook and Slingluff avenues, Garbage Cart, Twenty-first Ward, $18 per week.

John Yeager, 33 Reese street, Garbage Cart, Twenty-second Ward, $18 per week.

Albert Hall, 1808 Third street (Walbrook), Garbage Cart, Twenty-first Ward, $18 per week.

Chas. H. Glenn, 631 Jefferson street, Garbage Cart, Twenty-second Ward, $18 per week.

Geo. S. Dorsey, 1954 Walbrook avenue, Garbage Cart, Twenty-first Ward, $18 per week.

*Street Cleaning Department.—Continued.*

Jacob Shauck, 336 Elm avenue, Garbage Cart, Twenty-first Ward, $18 per week.

John McGinn, 1923 Union avenue, Garbage Cart, Twenty-second Ward, $18 per week.

Chas. Hobbs, 26 Clipper avenue, Garbage Cart, Twenty-first Ward, $18 per week.

(Code of 1893, Sec. 221, Art. 48.)

Samuel Gorsuch, 1810 Oliver street, Sweeper and Scraper, Seventh Ward, $10 per week.

Chas. Graydon, 1012 E. Monument street, Sweeper and Scraper, Fifth Ward, $10 per week.

John Thomas, 1429 McElderry street, Sweeper and Scraper, Sixth Ward, $10 per week.

Emile Miller, 312 S. Exeter street, Sweeper and Scraper, Fourth Ward, $10 per week.

John W. Jones, 1224 N. Durham street, Sweeper and Scraper, Seventh Ward, $10 per week.

Wm. H. D. Fields, 1833 E. Biddle street, Sweeper and Scraper, Sixth Ward, $10 per week.

Frank Trautwine, 1613 Milliman street, Sweeper and Scraper, Fifth Ward, $10 per week.

Peter Armiger, 609 N. Bethel street, Sweeper and Scraper, Fifth Ward, $10 per week.

John E. Donnell, 2104 Ashland avenue, Sweeper and Scraper, Sixth Ward, $10 per week.

Geo. A. Yockel, 1818 Broadway, Sweeper and Scraper, Seventh Ward, $10 per week.

John H. Ogle, 20 N. Montford avenue, Sweeper and Scraper, Sixth Ward, $10 per week.

Geo. Garrettson, 1527 Ensor street, Sweeper and Scraper, Eighth Ward, $10 per week.

Andrew Webster, 1615 N. Collington avenue, Sweeper and Scraper, Sixth Ward, $10 per week.

*Street Cleaning Department.—Continued.*

George Lambright, 1611 St. Joseph street, Sweeper and Scraper, Seventh Ward, $10 per week.

Warren N. Barker, 226 S. Ann street, Sweeper and Scraper, Third Ward, $10 per week.

John Bohnlfink, 205 N. Eden street, Sweeper and Scraper, Fourth Ward, $10 per week.

George Kramer, 1523 Lamount avenue, Sweeper and Scraper, Eighth Ward, $10 per week.

John W. Clark, 1116 Winchester street, Sweeper and Scraper, Nineteenth Ward, $10 per week.

(Code of 1893, Sec. 222, Art. 48.)

Nick Spank, 523 Aisquith street, Street Cart, Fifth Ward, $18 per week.

Christian Weaver, 956 N. Washington street, Street Cart, Sixth Ward, $18 per week.

Abraham Cohen, 1005 Low street, Street Cart, Fourth Ward, $18 per week.

Samuel Hall, 1606 Lombard street, Street Cart, First Ward, $18 per week.

Chas. Knincwan, 923 Canton avenue, Street Cart, Fourth Ward, $18 per week.

John Gessner, 607 Forrest street, Street Cart, Fifth Ward, $18 per week.

George Gripp, 2817 Fayette street, Street Cart, Sixth Ward, $18 per week.

Wm. B. Mason, 633 Castle street, Street Cart, Sixth Ward, $18 per week.

Ferd. Elgert, 1531 N. Eden street, Garbage Cart, Seventh Ward, $18 per week.

John Bechtold, Orleans and Lewis streets, Garbage Cart, Fifth Ward, $18 per week.

Emile Holtz, 1106 E. Fayette street, Garbage Cart, Fourth Ward, $18 per week.

*Street Cleaning Department.—Continued.*

Harris Vogel, 514 Aisquith street, Garbage Cart, Fifth Ward, $18 per week.

Wm. H. Brookhardt, 1047 Hillen street, Garbage Cart, Fifth Ward, $18 per week.

Seth L. Sommerson, 1101 Forrest street, Garbage Cart, Eighth Ward, $18 per week.

Frederick Prem, 637 Ensor street, Garbage Cart, Fifth Ward, $18 per week.

John Diver, 2034 E. Eager street, Garbage Cart, Sixth Ward, $18 per week.

John Biddison, Preston and Washington streets, Garbage Cart, Sixth Ward, $18 per week.

Edward Phitts, 1026 N. Washington street, Garbage Cart, Sixth Ward, $18 per week.

E. L. Leasure, Abbott, near Bond street, Garbage Cart, Seventh Ward, $18 per week.

John Deal, 1012 N. Washington street, Garbage Cart, Sixth Ward, $18 per week.

Herman F. Romosor, 1507 Durham street, Garbage Cart, Seventh Ward, $18 per week.

Wm. Baucher, 1515 E. Townsend street, Garbage Cart, Seventh Ward, $18 per week.

Anton L. Petry, 809 Greenmount avenue, Garbage Cart, Eighth Ward, $18 per week.

Wm. W. Scott, 922 N. Wolfe street, Garbage Cart, Seventh Ward, $18 per week.

Thomas Bailey, 1922 E. Preston street, Garbage Cart, Seventh Ward, $18 per week.

C. F. Eyler, 508 Colvin street, Garbage Cart, Fifth Ward, $18 per week.

Wm. H. Perrine, 1107 Proctor alley, Garbage Cart, Eighth Ward, $18 per week.

Wm. Becker, 12 Harrison street, Garbage Cart, Ninth Ward, $18 per week.

*Street Cleaning Department.—Continued.*

Lewis E. Espey, 2407 E. Monument street, Garbage Cart, Sixth Ward, $18 per week.

Wm. P. Pensel, 922 N. Dallas street, Garbage Cart, Seventh Ward, $18 per week.

James Whiteford, Chester and McElderry, Garbage Cart, Sixth Ward, $18 per week.

Wm. Mettee, 1024 Greenmount avenue, Garbage Cart, Eighth Ward, $18 per week.

John M. Schulter, 937 E. Chase street, Garbage Cart, Seventh Ward, $18 per week.

Geo. Van Horn, 1604 N. Dallas street, Garbage Cart, Seventh Ward, $18 per week.

Washington Lee, 216 W. Hill street, Garbage Cart, Fifteenth Ward, $18 per week.

Henry B. Smith, 513 N. Bethel street, Garbage Cart, Sixth Ward, $18 per week.

Herbert Wilson, 711 Vincent street, Garbage Cart, Nineteenth Ward, $18 per week.

Thos. H. Tilghman, 303 Bruce street, Garbage Cart, Nineteenth Ward, $18 per week.

James Harris, 902 Druid Hill avenue, Garbage Cart, Eleventh Ward, $18 per week.

James Height, 404 Courtland street, Garbage Cart, Ninth Ward, $18 per week.

Thomas Johnson, 821 Stirling street, Garbage Cart, Fifth Ward, $18 per week.

Emanuel Watkins, 226 N. Paca street, Garbage Cart, Eighteenth Ward, $18 per week.

Henry S. Trimbles, 612 N. Chapel street, Garbage Cart, Sixth Ward, $18 per week.

Isaac P. Brown, 313 S. Sharp street, Garbage Cart, Ninth Ward, $18 per week.

Henry Barber, 900 Harden's court, Garbage Cart, Fifteenth Ward, $18 per week.

*Street Cleaning Department.—Continued.*

Peter Scribner, 1025 Raborg street, Garbage Cart, Fourteenth Ward, $18 per week.

Frank Dorsey, 718 Hanover street, Garbage Cart, Fifteenth Ward, $18 per week.

James H. A. Hill, 622 W. Montgomery street, Garbage Cart, Sixteenth Ward, $18 per week.

John R. Ayers, 1637 Vincent alley, Scavenger, Twentieth Ward, $18 per week.

Thos. Baker, 306 S. Dallas street, Garbage Cart, Third Ward, $18 per week.

## BALTIMORE CITY JAIL.

(Code of 1893, Art. 4, Sec. 556.)

John R. Bailey, 400 E. Madison street, Warden, Eighth Ward, $2000 per annum.

James C. Clarke, 1201 Madison avenue, Physician, Twelfth Ward, $1500 per annum.

Emanuel Priess, 1429 McCulloh street, Clerk, Twelfth Ward, $1500 per annum.

O. H. P. Mathias, 2204 Druid Hill avenue, Deputy Warden, Twelfth Ward, $1200 per annum.

Geo. W. Wilson, 761 Third avenue, Keeper, Twenty-second Ward, $900 per annum.

M. R. Kennedy, 1436 Fort avenue, Day Engineer, Seventeenth Ward, $1000 per annum.

Chas. W. Fowler, 2464 Greenmount avenue, Electrical Engineer, Twenty-second Ward, $1000 per annum.

Geo. W. Deitz, 1626 E. Madison street, Baker, Seventh Ward, $900 per annum.

Joseph H. Burkins, 310 Falls road, Keeper, Twenty-first Ward, $900 per annum.

Edward Kimberly, 1201 Guilford avenue, Keeper, Eighth Ward, $900 per annum.

Joseph Shaney, 1416 Oliver street, Keeper, Seventh Ward, $900 per annum.

Harry C. Bullen, 1005 Hollins street, Keeper, Fourteenth Ward, $900 per annum.

Chas. E. Smith, 606 W. Conway street, Keeper, Sixteenth Ward, $900 per annum.

Harry H. Meeks, 1608 N. Calhoun street, Keeper, Twentieth Ward, $900 per annum.

James W. Wrightman, 819 W. North avenue, Keeper, Twelfth Ward, $900 per annum.

Spencer J. Bunting, 9 and 11 North street, Keeper, Ninth Ward, $900 per annum.

Benj. F. Charles, 1511 Clifton street, Keeper, Twenty-first Ward, $900 per annum.

A. G. Supplee, 2212 McCulloh street, Keeper, Twelfth Ward, $900 per annum.

Chas. Kramer, 610 S. Bradford street, Keeper, First Ward, $900 per annum.

Robert H. White, 112 S. Gittings street, Keeper, Seventeenth Ward, $900 per annum.

J. Robert Sheridan, 1211 Greenmount avenue, Keeper, Eighth Ward, $900 per annum.

Chas. N. Emick, 100 S. Poppleton street, Keeper, Thirteenth Ward, $900 per annum.

Mahlon Hamilton, 1821 W. Franklin street, Keeper, Nineteenth Ward, $900 per annum.

Wm. C. Krotee, 1425 E. Federal street, Keeper, Seventh Ward, $900 per annum.

James C. Glen, 2518 Pennsylvania avenue, Keeper, Twenty-first Ward, $900 per annum.

Edward F. Boblits, 519 St. Mary avenue (Hampden), Keeper, Twenty-second Ward, $900 per annum.

Joseph Kelly, 46 E. Henrietta street, Keeper, Fifteenth Ward, $900 per annum.

Florence Reed, 424 E. Eager street, Matron, Eighth Ward, $720 per annum.

Minnie Hughes, 1306 N. Caroline street, Assistant Matron, Seventh Ward, $660 per annum.

Harry L. Wilson, 1233 Greenmount avenue, Hostler, Eighth Ward, $720 per annum.

Geo. G. Gill, 914 N. Gay street, Substitute, Seventh Ward, $2.50 per day, temporary.

W. H. Watson, 1005 Hillen street, Substitute, Fifth Ward, $2.50 per day, temporary.

## CITY COLLECTOR'S DEPARTMENT.

(Code of 1893, Art. 50, Sec. 62.)

J. F. Parlett, 1717 Park avenue, Collector, Twelfth Ward, $2000 per annum.

E. A. Hartman, 1111 N. Caroline street, Deputy Collector, Seventh Ward, $2500 per annum.

T. G. Mairs, 1815 Jefferson street, Cashier, Sixth Ward, $1600 per annum.

J. L. Cassard, 108 E. Read street, Assistant Cashier, Ninth Ward, $1400 per annum.

R. Ferguson, 1411 Light street, Piece Clerk, Seventeenth Ward, $1300 per annum.

T. E. Davis, 1713 E. Baltimore street, Bookkeeper, Third Ward, $1600 per annum.

G. Kettlewell, 553 Presstman street, General Cash Bookkeeper, Twelfth Ward, $1600 per annum.

F. J. Murphy, 624 W. Mulberry street, Transfer Clerk, Tenth Ward, $1300 per annum.

T. H. Bartlett, 2422 E. Baltimore street, Ledger Clerk, Sixth Ward, $1300 per annum.

E. E. Stewart, 1610 Barclay street, Ledger Clerk, Eighth Ward, $1300 per annum.

L. J. Meisel, 1424 Presstman street, Ledger Clerk, Twentieth Ward, $1300 per annum.

G. H. Mason, 801 N. Broadway, Ledger Clerk, Seventh Ward, $1300 per annum.

T. K. Pippin, 1531 Hanover street, Ledger Clerk, Seventeenth Ward, $1300 per annum.

N. Turnbull, 331 E. Twentieth street, Ledger Clerk, Twenty-second Ward, $1300 per annum.

C. J. Doyle, 714 Park avenue, Ledger Clerk, Eleventh Ward, $1300 per annum.

W. C. Harrison, 1722 E. Preston street, Ledger Clerk, Seventh Ward, $1300 per annum.

G. A. Roesninck, 408 S. Ann street, Ledger Clerk, Second Ward, $1300 per annum.

W. H. Linthicum, 1917 W. Baltimore street, Ledger Clerk, Eighteenth Ward, $1300 per annum.

C. W. Stockett, Jr., 215 E. Twenty-third street, Ledger Clerk, Twenty-second Ward, $1300 per annum.

J. G. Frainie, 2515 W. North avenue, Ledger Clerk, Twenty-first Ward, $1300 per annum.

J. M. Pope, 709 W. Lexington street, Ledger Clerk, Thirteenth Ward, $1300 per annum.

W. H. Fry, 517 N. Arlington avenue, Ledger Clerk, Fourteenth Ward, $1300 per annum. (Ordinance No. 15, 96-97.)

J. C. Kane, 103 N. Fulton avenue, Ledger Clerk, Nineteenth Ward, $1300 per annum. (Ordinance No. 15, 96-97.)

J. F. Hoffman, 1712 Aliceanna street, Ledger Clerk, Second Ward, $1300 per annum. (Ordinance No. 15, 96-97.)

(Code of 1893, Art. 50, Sec. 14.)

(Twenty-eight bailiffs, $357 per annum each, in addition to fees. Code of 1893, Art. 50, Sec. 14.)

W. Bell, 2123 E. Baltimore street, Bailiff, First Ward.

L. R. Bridge, 1615 E. Baltimore street, Bailiff, Third Ward.

A. J. Sugar, 32 S. Exeter street, Bailiff, Fourth Ward.

W. P. West, 719 Aisquith street, Bailiff, Fifth Ward.

C. Leyhe, 1830 E. Monument street, Bailiff, Fifth Ward.

F. Quast, 1619 E. North avenue, Bailiff, Seventh Ward.

G. R. Cross, 1312 N. Broadway, Bailiff, Seventh Ward.

C. Murray, 13 E. Lafayette avenue, Bailiff, Eighth Ward.

T. G. Nicholson, 1605 N. Eden street, Bailiff, Eighth Ward.

E. B. Farland, 103 W. Franklin street, Bailiff, Ninth Ward.

J. B. Orem, 116 W. Barre street, Bailiff, Ninth Ward.

W. V. D. Wettern, 411 W. Saratoga street, Bailiff, Tenth Ward.

M. L. Bandel, 1613 Linden avenue, Bailiff, Twelfth Ward.

J. F. Curley, 1902 McCulloh street, Bailiff, Twelfth Ward.

W. H. Lardusky, 807 W. Lexington street, Bailiff, Thirteenth Ward.

C. W. Haury, 304 S. Stricker street, Bailiff, Fourteenth Ward.

M. Dundon, 805 Light street, Bailiff, Fifteenth Ward.

C. E. Varina, 648 W. Lee street, Bailiff, Sixteenth Ward.

W. J. Lang, 1447 Hull street, Bailiff, Seventeenth Ward.

W. B. Meredith, 1126 Scott street, Bailiff, Eighteenth Ward.

D. H. Six, 931 N. Mount street, Bailiff, Nineteenth Ward.

T. W. Cromer, 1715 Lafayette avenue, Bailiff, Nineteenth Ward.

F. L. Abbott, 324 Union avenue, Bailiff, Twenty-first Ward.

W. O. Smith, 223 Chestnut avenue, Bailiff, Twenty-second Ward.

L. Howell, 822 Huntingdon avenue, Bailiff, Twenty-second Ward.

L. Griesman, West and Denver streets, Bailiff, Eighteenth Ward.

B. Trotton, 12 S. Broadway, Bailiff, Third Ward.

J. B. Phipps, 129 E. North avenue, Bailiff, Eighth Ward.

## APPEAL TAX COURT.

(Code of 1893, Art. 50, Sec. 1.)

John F. Langhammer, 318 S. Patterson Park avenue, Judge, First Ward, $1800 per annum.

Andrew W. Bostwick, 1127 N. Fulton avenue, Judge, Nineteenth Ward, $1800 per annum.

Edward DeLacour, 734½ Saratoga street, Judge, Tenth Ward, $1800 per annum.

Louis Cassard, Jr., 817 N. Eutaw street, Clerk, Eleventh Ward, $1600 per annum.

C. D. Matthews, 236 W. Hoffman street, Clerk, Twelfth Ward, $1600 per annum.

Robert L. Corse, 2242 Guilford avenue, Assessor, Twenty-second Ward, $1400 per annum.

Harry S. Rayner, 1824 Bolton street, Assessor, Twelfth Ward, $1200 per annum. (Ordinance No. 18, 1879.)

Wm. M. Stewart, 511 Aisquith street, Assessor, Fifth Ward, $1200 per annum. (Ordinance No. 18, 1879.)

John A. J. Medcalf, 726 N. Gilmor street, Clerk, Nineteenth Ward, $1200 per annum. (Ordinance No. 18, 1879.)

Wm. B. Whiteside, 2426 N. Calvert street, Assessor, Twenty-second Ward, $1200 per annum. (Ordinance No. 19, 1893-94.)

Wm. R. King, 801 N. Charles street, Assessor, Ninth Ward, $1800 per anum. (Ordinance No. 63, 1892-1893.)

Wm. A. Pleasants, 606 Cathedral street, Assessor, Ninth Ward, $1200 per annum. (Ordinance No. 63, 1892-93.)

Howell D. Robinson, 2410 N. Charles street, Assessor, Twenty-second Ward, $1200 per annum. (Ordinance No. 63, 1892-93.)

Clarence Biddle, 343 Bolton street, Clerk, Twelfth Ward, $1200 per annum. (Ordinance No. 98, 1893-1894.)

SUPERINTENDENT OF LAMPS DEPARTMENT.

Wm. H. Swindell, 605 W. Lee street, General Superintendent, Sixteenth Ward, $2000 per annum. (Code of 1893, Art. 28, Sec. 1.)

Charles E. Cole, 1500 E. Oliver street, Clerk, Seventh Ward, $1000 per annum. (Code of 1893, Art. 28, Sec. 5.)

(Temporary. Code of 1893, Art. 28, Sec. 3.)

Wm. J. Armstrong, 522 W. Lee street, Workshop Employe, Sixteenth Ward, $18 per week.

Christopher Vandaniker, 700 Edmondson avenue, Workshop Employe, Twentieth Ward, $15 per week.

Wm. D. McKenny, 909 Light street, Workshop Employe, Fifteenth Ward, $18 per week.

Charles Heinritz, 2303 Townsend street, Workshop Employe, Sixth Ward, $18 per week.

Henry Ey, 2704 Boston street, Workshop Employe, First Ward, $18 per week.

Frederick Dudley, 728 Light street, Workshop Employe, Fifteenth Ward, $10 per week.

(Code of 1893, Art. 48, Sec. 102.)

Raphael A. Kinnaird, 120 N. Liberty street, Superintendent, Ninth Ward, $12.50 per week.

Philip Witts, 415 N. Eden street, Superintendent, Sixth Ward, $12.50 per week.

John C. Geddes, 921 W. Lombard street, Superintendent, Thirteenth Ward, $12.50 per week.

Jacob Swindell, 513 W. Lee street, Superintendent, Sixteenth Ward, $12.50 per week.

Benj. H. Steuart, 621 Shakespeare street, Superintendent, Second Ward, $12.50 per week.

Richard W. Cross, 153 Chestnut avenue, Superintendent, Twenty-second Ward, $18 per week. (Code of 1893, Art. 48, Sec. 105A.)

(Code of 1893, Art. 48, Sec. 102.)

Aquilla B. Christopher, 2235 Essex street, Lamplighter, First Ward, $8 per week.

James H. Ross, 429 S. Durham street, Lamplighter, First Ward, $8 per week.

Henry Smith, 2409 Canton avenue, Lamplighter, First Ward, $8 per week.

George Heiser, 2210 Eastern avenue, Lamplighter, First Ward, $8 per week.

Wm. J. Glover, 813 Grove street, Lamplighter, First Ward, $8 per week.

James Garrett, 1118 East avenue, Lamplighter, $8 per week.

Edward Appel, 405 S. Register street, Lamplighter, Second Ward, $8 per week.

Henry Kistler, 1722 Eastern avenue, Lamplighter, Second Ward, $8 per week.

John T. Windsor, Griffin court, Lamplighter, Second Ward, $8 per week.

William W. Meek, 504 S. Dallas street, Lamplighter, Second Ward, $8 per week.
August Weigman, 243 Albemarle street, Lamplighter, Second Ward, $8 per week.
John Kellar, Ann and Gough streets, Lamplighter, Second Ward, $8 per week.
George Rumbel, 17 N. Durham street, Lamplighter, Third Ward. $8 per week.
John Dolch, 105 S. Register street, Lamplighter, Third Ward, $8 per week.
Fred. W. Smith, 1521 E. Lombard street, Lamplighter, Third Ward, $8 per week.
John Battee, 131 S. Caroline street, Lamplighter, Third Ward, $8 per week.
Wm. H. Thomas, 234 S. Bond street, Lamplighter, Third Ward, $8 per week.
John Regner, 243 S. Register street, Lamplighter, Third Ward, $8 per week.
Louis Goldstein, 276 N. Exeter street, Lamplighter, Fourth Ward, $8 per week.
Joseph Fagin, 1252 E. Fayette street, Lamplighter, Fourth Ward, $8 per week.
Wallace Coleman, 105 N. Eden street, Lamplighter, Fourth Ward, $8 per week.
Nicholas Winkler, 109 N. Eden street, Lamplighter, Fourth Ward, $8 per week.
Herman Holtzman, 207 N. Caroline street, Lamplighter, Fourth Ward, $8 per week.
William Grebb, 110 N. Eden street, Lamplighter, Fourth Ward, $8 per week.
Leonard Seelinger, Hillen and Forrest streets, Lamplighter, Fifth Ward, $8 per week.
W. H. Keister, 604 Ensor street, Lamplighter, Fifth Ward, $8 per week.
Jacob Busch, 1406 E. Monument street, Lamplighter, Fifth Ward, $8 per week.

Louis Eratzky, 277 Rogers avenue, Lamplighter, Fifth Ward, $8 per week.

Henry C. Davids, 1007 E. Monument street, Lamplighter, Fifth Ward, $8 per week.

F. W. Marquardt, 1832 E. Monument street, Lamplighter, Fifth Ward, $8 per week.

Lewis H. Thomas, 732 N. Chester street, Lamplighter, Sixth Ward, $8 per week.

Benj. J. Meredith, 2229 Lamley street, Lamplighter, Sixth Ward, $8 per week.

Matt. Flutka, 931 N. Chapel street, Lamplighter, Sixth Ward, $8 per week.

Wm. Clinton, 1023 N. Chapel street, Lamplighter, Sixth Ward, $8 per week.

Frank Moeslein, 14 N. Castle street, Lamplighter, Sixth Ward, $8 per week.

George W. Bull, 1316 N. Chester street, Lamplighter, Sixth Ward, $8 per week.

John Deaver, 1609 E. Chase street, Lamplighter, Seventh Ward, $8 per week.

P. Edelman, 1219 N. Bond street, Lamplighter, Seventh Ward, $8 per week.

H. E. Hoover, 1822 E. Biddle street, Lamplighter, Seventh Ward, $8 per week.

J. H. Keller, 1505 N. Bethel street, Lamplighter, Seventh Ward, $8 per week.

James D. Lowry, 1729 E. Eager street, Lamplighter, Seventh Ward, $8 per week.

E. G. Miller, 1328 N. Washington street, Lamplighter, Seventh Ward, $8 per week.

Jacob Vandaniker, 1208 Ensor street, Lamplighter, Eighth Ward, $8 per week.

John Hennessy, 1013 Forrest Place, Lamplighter, Eighth Ward, $8 per week.

Micajah Tracey, 1127 Valley street, Lamplighter, Eighth Ward, $8 per week.

Andrew W. Crouch, 1919 Linden avenue, Lamplighter, Eighth Ward, $8 per week.
Wm. L. McCubbin, 1522 Aisquith street, Lamplighter, Eighth Ward, $8 per week.
Alex. F. Creamer, 1129 Forrest Place, Lamplighter, Eighth Ward, $8 per week.
Powell Mihmeweiz, 228 Pratt street, Lamplighter, Ninth Ward, $8 per week.
Jacob Weaver, 717 E. Baltimore street, Lamplighter, Ninth Ward, $8 per week.
Pinkees Nidith, 818 E. Lombard street, Lamplighter, Ninth Ward, $8 per week.
Joseph Katz, 216 Harrison street, Lamplighter, Ninth Ward, $8 per week.
John D. Padgett, 102 W. Lombard street, Lamplighter, Ninth Ward, $8 per week.
John Garrity, 114 Beaufort street, Lamplighter, Ninth Ward, $8 per week.
Geo. Robinson, 432 N. Fremont avenue, Lamplighter, Tenth Ward, $8 per week.
George Pierce, 918 W. Franklin street, Lamplighter, Tenth Ward, $8 per week.
Charles H. Brown, 822 W. Lexington street, Lamplighter, Tenth Ward, $8 per week.
Thomas Harkness, 921 Pierce street, Lamplighter, Tenth Ward, $8 per week.
Charles Coligny, 302 N. Fremont avenue, Lamplighter, Tenth Ward, $8 per week.
H. Doenges, 228 N. Poppleton street, Lamplighter, Tenth Ward, $8 per week.
Harry S. Brown, 441 W. Biddle street, Lamplighter, Eleventh Ward, $8 per week.
William Netter, 214 W. Mulberry street, Lamplighter, Eleventh Ward, $8 per week.
Levin T. Dunnock, 799 George street, Lamplighter, Eleventh Ward, $8 per week.

William Rinne, 555 Union street, Lamplighter, Eleventh Ward, $8 per week.

Albert Howell, 403 N. Paca street, Lamplighter, Eleventh Ward, $8 per week.

John E. Phillips, 580 Baker street, Lamplighter, Twelfth Ward, $8 per week.

Otto Wekeman, 537 McMechen street, Lamplighter, Twelfth Ward, $8 per week.

H. C. Sparrow, 1806 Brunt street, Lamplighter, Twelfth Ward, $8 per week.

J. B. Harris, 610 Cumberland street, Lamplighter, Twelfth Ward, $8 per week.

G. Y. Younker, 581 Baker street, Lamplighter, Twelfth Ward, $8 per week.

John Jacobs, 1812 Division street, Lamplighter, Twelfth Ward, $8 per week.

Everhart Decker, 117 Callendar alley, Lamplighter, Thirteenth Ward, $8 per week.

Charles F. Benner, 120 Amity street, Lamplighter, Thirteenth Ward, $8 per week.

John Schofield, 854 W. Baltimore street, Lamplighter, Thirteenth Ward, $8 per week.

Wm. C. Eckman, 3 S. Schroeder street, Lamplighter, Thirteenth Ward, $8 per week.

Geo. L. Germundt, 889 W. Lombard street, Lamplighter, Thirteenth Ward, $8 per week.

Chas. D. Weitzel, 918 Ryan street, Lamplighter, Thirteenth Ward, $8 per week.

Henry Becker, 105 Addison alley, Lamplighter, Fourteenth Ward, $8 per week.

Jas. M. Simmons, 1306 W. Lombard street, Lamplighter, Fourteenth Ward, $8 per week.

A. S. Warner, 1041 W. Saratoga street, Lamplighter, Fourteenth Ward, $8 per week.

John C. Leidner, 1137 Hollins street, Lamplighter, Fourteenth Ward, $8 per week.

Philip Seelye, 1021 Boyd street, Lamplighter, Fourteenth Ward, $8 per week.
George Heubner, 207 N. Carlton street, Lamplighter, Fourteenth Ward, $8 per week.
Martin League, 934 Hanover street, Lamplighter, Fifteenth Ward, $8 per week.
Geo. Creighton, 19 E. Hamburg street, Lamplighter, Fifteenth Ward, $8 per week.
John Schmidt, 216 W. Henrietta street, Lamplighter, Fifteenth Ward, $8 per week.
Chas. W. Banthem, Light and Hamburg streets, Lamplighter, Fifteenth Ward, $8 per week.
Wm. Burkheimer, 509 S. Howard street, Lamplighter, Fifteenth Ward, $8 per week.
George Stewart, 816 Sharp street, Lamplighter, Fifteenth Ward, $8 per week.
Frederick Ritter, 816 Burgundy alley, Lamplighter, Sixteenth Ward, $8 per week.
Henry Hartlauer, 711 Little Green street, Lamplighter, Sixteenth Ward, $8 per week.
John C. Bush, 834 Warner street, Lamplighter, Sixteenth Ward, $8 per week.
Edwin Emerson, 205 Scott street, Lamplighter, Sixteenth Ward, $8 per week.
Henry Zinnel, 810 Burgundy alley, Lamplighter, Sixteenth Ward, $8 per week.
Henry Scheidt, 833 Warner street, Lamplighter, Sixteenth Ward, $8 per week.
Charles Meyers, 1529 S. Charles street, Lamplighter, Seventeenth Ward, $8 per week.
William Amey, 1230 Battery avenue, Lamplighter, Seventeenth Ward, $8 per week.
Richard Kohlhopp, 1421 Decatur street, Lamplighter, Seventeenth Ward, $8 per week.
Thos. G. Stubbins, 1143 S. Sharp street, Lamplighter, Seventeenth Ward, $8 per week.

George Burdett, 2005 Hanover street, Seventeenth Ward, $8 per week.

E. C. Pickering, 512 E. Fort avenue, Lamplighter, Seventeenth Ward, $8 per week.

Wm. Seigling, 1147 Bowen street, Lamplighter, Eighteenth Ward, $8 per week.

Wm. D. Franklin, 1244 Columbia avenue, Lamplighter, Eighteenth Ward, $8 per week.

Robert Higdon, 403 Stockholm street, Lamplighter, Eighteenth Ward, $8 per week.

Harry Cartwright, 1169 Boyd street, Lamplighter, Eighteenth Ward, $8 per week.

John E. Souders, 1171 Bowen street, Lamplighter, Eighteenth Ward, $8 per week.

Chas. Lusby, 1002 S. Paca street, Lamplighter, Eighteenth Ward, $8 per week.

Alfred S. Spedden, Harlem avenue and Kirby's lane, Lamplighter, Nineteenth Ward, $8 per week.

Thomas W. Davis, 623 Payson street, Lamplighter, Nineteenth Ward, $8 per week.

Geo. L. Rathell, 1405 W. Baltimore street, Lamplighter, Nineteenth Ward, $8 per week.

Jesse Meyers, 507 Monroe street, Lamplighter, Nineteenth Ward, $8 per week.

Joseph Rhodes, 428 N. Carrollton avenue, Lamplighter, Nineteenth Ward, $8 per week.

Harry Lupton, 2118 Vine street, Lamplighter, Nineteenth Ward, $8 per week.

Geo. J. Reese, 1102 N. Stockton street, Lamplighter, Twentieth Ward, $8 per week.

Geo. W. Ringgold, 1511 Baker street, Lamplighter, Twentieth Ward, $8 per week.

Peter Leppert, 1728 N. Calhoun street, Lamplighter, Twentieth Ward, $8 per week.

Charles A. Hutchens, 1410 N. Gilmor street, Lamplighter, Twentieth Ward, $8 per week.

Samuel Smith, 1015 N. Calhoun street, Lamplighter, Twentieth Ward, $8 per week.

Wm. L. Miller, 1556 Argyle avenue, Lamplighter, Twentieth Ward, $8 per week.

Frederick Sella, 38 Louden avenue, Lamplighter, Twenty-first Ward, $8 per week.

Thomas B. Cole, 115 Third avenue, Lamplighter, Twenty-first Ward, $8 per week.

Charles Boblits, 929 Carroll street, Lamplighter, Twenty-first Ward, $8 per week.

John Quick, Park Heights avenue, Lamplighter, Twenty-first Ward, $8 per week.

William Alder, 213 Carroll street, Lamplighter, Twenty-first Ward, $8 per week.

Jos. O. Williams, 2539 Salem street, Lamplighter, Twenty-first Ward, $8 per week.

Jesse L. Levering, 46 Hafer street, Lamplighter, Twenty-first Ward, $8 per week.

August Zettsman, 2501 W. Fairmount avenue, Lamplighter, Twenty-first Ward, $8 per week.

Valentine Mollar, 303 Belair avenue, Lamplighter, Twenty-second Ward, $8 per week.

John Burgan, 22 Madison street, Lamplighter, Twenty-second Ward, $8 per week.

John Boulden, 55 Spring row, Lamplighter, Twenty-second Ward, $8 per week.

John Ricks, 116 Roland avenue, Lamplighter, Twenty-second Ward, $8 per week.

William Sullivan, Mt. Vernon avenue, Lamplighter, Twenty-second Ward, $8 per week.

David W. Scott, 912 Second avenue, Lamplighter, Twenty-second Ward, $8 per week.

Emanuel Freeland, 302 Chestnut avenue, Lamplighter, Twenty-second Ward, $8 per week.

Henry Kellar, 6 Wilson street, Lamplighter, Twenty-second Ward, $8 per week.

## PARK BOARD.

(Ordinance No. 60, 1860.)

Chas. A. Rayhice, 1319 Myrtle avenue, Treasurer, Twentieth Ward, $1500 per annum.

S. Gordon Gatchell, 3004 Evergreen Terrace, Clerk, Twenty-first Ward, $1200 per annum.

Wm. H. Cassell, Druid Hill Park, Superintendent Druid Hill Park, Twenty-first Ward, $1500 per annum.

Frank Walters, 1507 W. Saratoga street, Sergeant, Nineteenth Ward, $1.75 per day.

Chas. Forrest, 712 Cumberland street, Watchman, Twentieth Ward, $1.66⅔ per day.

William Baker, 1501 N. Carey street, Watchman, Twelfth Ward, $1.25 per day.

Wm. H. Stinthcomb, 314 Elm avenue, Watchman, Twenty-second Ward, $1.25 per day.

John Wicks, 579 Union street, Watchman, Eleventh Ward, $1.25 per day.

James Hinton, 1213 Mosher street, Day Gatekeeper, Twentieth Ward, $1.42 per day.

Michael Byrnes, 1506 Division street, Day Gatekeeper, Twelfth Ward, $1.25 per day.

Edward Hartzell, 572 Baker street, Day Gatekeeper, Twelfth Ward, $1.25 per day.

B. Donnelly, 1635 Walsh street, Day Gatekeeper, Twentieth Ward, $1.25 per day.

F. Zimmerman, 2529 Mary street, Day Gatekeeper, Twenty-first Ward, $1.25 per day.

Frank Beehler, 4 Railroad avenue, Day Gatekeeper, Twenty-first Ward, $1.25 per day.

Chas. Nicholson, 1719 Riggs avenue, Day Gatekeeper, Nineteenth Ward, $1.25 per day.

A. J. Wickliffe, 2020 N. Calvert street, Day Gatekeeper, Twenty-second Ward, $1.25 per day.

M. Halman, 1527 Myrtle avenue, Day Gatekeeper, Twentieth Ward, $1.25 per day.

Wm. Williams, 1453 Covington street, Night Gatekeeper, Seventeenth Ward, $1.25 per day.

John Childs, 2566 Druid Hill avenue, Night Gatekeeper, Twenty-first Ward, $1.25 per day.

Christian Wicks, 1408 N. Gilmor street, Night Gatekeeper, Eleventh Ward, $1.25 per day.

Gus. Ford, Shirley's lane, Night Gatekeeper, Twenty-first Ward, $1.25 per day.

Albert Fisher, 503 Fourth street, Night Gatekeeper, Twenty-second Ward, $1.25 per day.

Phil. Beck, 154 Elkins avenue, Night Gatekeper, Twenty-first Ward, $1.25 per day.

C. A. Beyers, 157 Chestnut avenue, Night Gatekeeper, Twenty-second Ward, $1.25 per day.

Geo. O'Bryan, Sr., 1527 Clifton street, Night Gatekeeper, Twenty-first Ward, $1.25 per day.

C. E. Brown, 108 Union avenue, Patrolman, Twenty-first Ward, $1.25 per day.

L. Scalono, 13 E. Fayette street, Animal-keeper, First Ward, $1.50 per day.

E. Blizzard, 2612 Francis street, Animal-keeper, Twenty-first Ward, $1.50 per day.

Chas. Morgan, 1531 Clifton street, Animal-keeper, Twenty-first Ward, $12 per week.

Kasper Kentner, 519 N. Bradford street, Shepherd, Sixth Ward, $1.43 per day.

Adam Fassill, 1928 Walbrook avenue, Shepherd, Twenty-first Ward, $1.43 per day.

August Bolland, 1737 Carlyle Place, Toilet-keeper, Seventh Ward, $1.66 per day.

Geo. O'Bryan, Jr., 2419 Francis street, Stable Boss, Twenty-first Ward, $1.66 per day.

Wm. Gaddes, 564 Baker street, Hostler, Twelfth Ward, $1.66 per day.

C. D. Jenkins, 2029 E. Biddle street, Substitute, Sixth Ward, $1.25 per day.

Wm. H. Cook, 219 Roland avenue, Substitute, Twenty-second Ward, $1.25 per day.

Wm. D. Hamilton, York road, near three-mile hill, Gardener, County, $13 per week.

Benj. Clarke, 2100 N. Fulton avenue, Assistant Gardener, Twenty-first Ward, $1.75 per day.

Wm. Kramer, 1502 Retreat street, Assistant Gardener, Twenty-first Ward, $1.75 per day.

Samuel Griffith, 2225 Oak street, Laborer, Twenty-second Ward, $1.66 per day.

M. J. Clarke, 1827 Aisquith street, Laborer, Eighth Ward, $1.66 per day.

Wm. J. Treland, 11 S. Castle street, Laborer, First Ward, $1.66 per day.

Harry Bell, 1712 Mount street, Boy, Twelfth Ward, 75 cents per day.

William Zell, 2513 Francis street, Boy, Twenty-first Ward, 75 cents per day.

M. Almony, 528 Laurens street, Mechanic, Twelfth Ward, $1.75 per day.

J. Kennedy, 18 N. Calhoun street, Mechanic, Nineteenth Ward, $2.50 per day.

A. Mepham, 725 Cumberland street, Mechanic, Twentieth Ward, $2 per day.

Geo. Garner, 1932 Walbrook avenue, Mechanic, Twenty-first Ward, $1.66 per day.

Jos. McCleary, 1920 Walbrook avenue, Mechanic, Twenty-first Ward, $1.66 per day.

Barbara Dahl, 575 Union street, Char-woman, Eleventh Ward, $1 per day.

Mary Horning, 1106 Patterson avenue, Char-woman, Twentieth Ward, $1 per day.

Elijah Smith, 259 Falls road, Teamster, Twenty-second Ward, $1.66 per day.

James Bryant, 2523 Salem street, Teamster, Twenty-first Ward, $1.66 per day.

Jas. Sullivan, 281 Chestnut street, Teamster, Twenty-second Ward, $1.66 per day.

Wm. Kennedy, 414 Merryman's avenue, Teamster, Twenty-second Ward, $1.66 per day.

Lloyd Mason, 413 Third avenue, Teamster, Twenty-second Ward, $1.66 per day.

J. P. O'Bryan, 314 Hunter street, Teamster, Eighth Ward, $1.66 per day.

J. Roundell, 524 Wilson street, Teamster, Twelfth Ward, $1.66 per day.

Oliver Redding, 3 Central avenue, Teamster, Twenty-first Ward, $1.66 per day.

John Gaddes, 1562 Baker street, Teamster, Twelfth Ward, $1.66 per day.

William Little, 2614 Francis street, Teamster, Twenty-first Ward, $1.66 per day.

Edward Daugherty, 406 E. Lafayette avenue, Teamster, Eighth Ward, $1.66 per day.

William Martin, 314 Roland avenue, Teamster, Twenty-second Ward, $1.66 per day.

Melton Hare, 181 Plymouth avenue, Teamster, Twenty-first Ward, $1.66 per day.

Henry Marsteller, 103 Davids avenue, Teamster, Twenty-first Ward, $1.66 per day.

Jos. Staupt, 719 Cumberland street, Foreman, Twentieth Ward, $2 per day.

Gilbert Hughes, 10 Brick hill, Foreman, Twenty-first Ward, $2 per day.

John Colley, Three-and-a-half mile Reisterstown road, Laborer, Twenty-first Ward, $1.66 per day.

George Cook, 3080 Cedar avenue, Laborer, Twenty-second Ward, $1.66 per day.

Thos. Clapsaddle, 1320 S. Charles street, Foreman, Seventeenth Ward, $2 per day.

Adam Schmidt, 1822 E. Lombard street, Laborer, Third Ward, $1.66 per day.

B. McGuirk, 615 N. Mount street, Laborer, Nineteenth Ward, $1.66 per day.

Fred. Deitz, 2606 Mary street, Laborer, Twenty-first Ward, $1.66 per day.

Elijah Sauch, 1520 Clifton street, Laborer, Twenty-first Ward, $1.66 per day.

Thos. Younger, 13 Woodberry avenue, Laborer, Twenty-first Ward, $1.66 per day.

R. Wilhelm, 708 N. Gilmor street, Laborer, Nineteenth Ward, $1.66 per day.

George Carr, 2333 Druid Hill avenue, Laborer, Twenty-first Ward, $1.66 per day.

Fred. Townsend, 1912 Pennsylvania avenue, Laborer, Twentieth Ward, $1.66 per day.

James Rigney, 2539 Salem street, Laborer, Twenty-first Ward, $1.66 per day.

Wm. Wooden, 404 Elm avenue, Laborer, Twenty-second Ward, $1.66 per day.

H. Foreman, 24 Plymouth street, Laborer, Twenty-first Ward, $1.66 per day.

Elijah Schaffer, 2022 Pulaski street, Laborer, Twenty-first Ward, $1.66 per day.

J. B. Eddington, 242 Carroll street, Laborer, Twenty-first Ward, $1.66 per day.

Conrad Merz, 1919 Ridgewood street, Laborer, Twenty-first Ward, $1.66 per day.

Fred. Rudolph, 2610 Steven's court, Laborer, Twenty-first Ward, $1.66 per day.

Adam Bach, 1822 E. Lombard street, Laborer, Third Ward, $1.66 per day.

Wm. Allender, 1712 N. Mount street, Laborer, Twentieth Ward, $1.66 per day.

J. H. Kellenberger, 1510 W. North avenue, Laborer, Twenty-first Ward, $1.66 per day.

H. Sinclair, 1117 N. Broadway, Laborer, Seventh Ward, $1.66 per day.

George Schmidt, 617 N. Montford avenue, Laborer, Sixth Ward, $1.66 per day.

N. Collett, 211 Druid avenue, Laborer, Twenty-first Ward, $1.66 per day.

John Doyle, 304 Arlington avenue, Laborer, Fourteenth Ward, $1.66 per day.

P. McKittrick, 1716 N. Calhoun street, Laborer, Twentieth Ward, $1.66 per day.

Ollie Jones, 1016 W. Clement street, Laborer, Seventeenth Ward, $1.66 per day.

George Work, 2415 Etting street, Laborer, Twenty-first Ward, $1.66 per day.

Thomas Cafserly, 1117 Proctor street, Laborer, Eighth Ward, $1.66 per day.

Frank Mayer, 1567 Newington Place, Laborer, Twentieth Ward, $1.66 per day.

L. Sporrer, 1506 N. Dallas street, Laborer, Seventh Ward, $1.66 per day.

B. A. Wilson, 318 N. Poppleton street, Laborer, Tenth Ward, $1.66 per day.

J. F. Plowman, 1142 Pennsylvania avenue, Laborer, Twentieth Ward, $1.66 per day.

H. M. Reeves, 924 Hampden avenue, Laborer, Twenty-second Ward, $1.66 per day.

John Strickland, 27 Clipper avenue, Laborer, Twenty-first Ward, $1.66 per day.

And. McMachen, 332 Sycamore street, Laborer, Twenty-first Ward, $1.66 per day.

Edw. Neihoff, 52 Brick hill, Laborer, Twenty-first Ward, $1.66 per day.

Edw. Campbell, 1114 Pennsylvania avenue, Teamster, Twentieth Ward, $1.66 per day.

Joseph Lichtfield, 140 Chestnut avenue, Teamster, Twenty-second Ward, $1.66 per day.

And. Ensor, 517 Fourth street, Teamster, Twenty-second Ward, $1.66 per day.

George Young, 248 Sycamore avenue, Boy, Twenty-first Ward, $1 per day.

Frank Bailey, 1739 Friendsbury Place, Boy, Twelfth Ward, 50 cents per day.

Frank Pearson, 1716 N. Mount street, Boy, Twelfth Ward, 50 cents per day.

J. C. Jones, 1323 S. Charles street, Laborer, Seventeenth Ward, $1.66 per day.

Adam Allbright, 280 Roland avenue, Laborer, Twenty-second Ward, $1.66 per day.

Harry Boblits, 30 Druid avenue, Boy, Twenty-first Ward, 50 cents per day.

B. B. Spicer, 68 Brick hill, Substitute, Twenty-second Ward, $200 per annum.

Benjamin Adams,————, Cleaner, ————, $200 per annum.

Marion L. Cassell, ————, Clerk to Superintendent, ————, $100 per annum.

Fred. Banengen, 1823 E. Chase street, Laborer, Seventh Ward, $1.66 per day.

*Carroll Park.*

(Ordinance No. 60, 1860.)

Chas. L. Seybold, Carroll Park, Superintendent, Eighteenth Ward, $20 per week.

Wm. Wasmuth, 4 Bartlett avenue, Laborer, Twenty-second Ward, $1.66 per day.

M. J. McGee, 1825 Eagle street, Laborer, Eighteenth Ward, $1.66 per day.

Wm. Dietrick, 1501 Bentalou street, Laborer, Eighteenth Ward, $1.66 per day.

F. Locher, 1848 Saratoga street, Gardener, Nineteenth Ward, $1.83 per day.

H. Spielman, 2124 Ramsay street, Laborer, Eighteenth Ward, $1.66 per day.

Geo. Frederick, 2104 Calverton road, Laborer, Eighteenth Ward, $1.66 per day.

Thomas Mitchell, 1826 Dover street, Laborer, Fourteenth Ward, $1.66 per day.

Geo. Reynolds, 755 Ramsay street, Laborer, Eighteenth Ward, $1.66 per day.

A. Weipert, 1130 York road, Laborer, Twenty-second Ward, $1.66 per day.

Jerry Willis, 2802 Raynor avenue, Laborer, Twenty-first Ward, $1.66 per day.

C. Garrison, 215 E. Hughes street, Laborer, Fifteenth Ward, $1.66 per day.

M. J. Doetsch, 2124 Ramsay street, Laborer, Eighteenth Ward, $1.66 per day.

Daniel Hoy, 225 S. Fulton avenue, Laborer, Fourteenth Ward, $1.66 per day.

M. Ryan, 6 Garrison lane, Laborer, Twenty-first Ward, $1.66 per day.

C. Eberlein, 1503 Hanover street, Laborer, Seventeenth Ward, $1.66 per day.

Thos. Mitchell, 1826 Dover street, Boy, Fourteenth Ward, 75 cents per day.

*Patterson Park.*

(Ordinance No. 60, 1860.)

A. Anderson, Patterson Park, Superintendent, First Ward, $25 per week.

J. N. Gardner, 242 S. Patterson Park avenue, Gateman, First Ward, $1.25 per day.

John Farrell, 232 S. Washington street, Gate and Patrolman, First Ward, $1.50 per day.

J. W. Hamilton, 908 E. Hoffman street, Gate and Patrolman, Seventh Ward, $1.50 per day.

E. P. Foley, 1910 Bank street, Gate and Patrolman, First Ward, $1.50 per day.

B. F. Thomas, 10 N. Chester street, Gate and Patrolman, Sixth Ward, $1.50 per day.

A. Hurley, 517 Durham street, Officer, Second Ward, $1.50 per day.

H. Gifford, 212 S. Patterson Park avenue, Observatory-keeper, First Ward, $1.50 per day.

Jas. Fairley, 1910 E. Bank street, Watchman, First Ward, $1.66 per day.

Wm. Tierney, 1102 Brevard street, Watchman, Twelfth Ward, $1.66 per day.

G. Schroedl, 16 S. Patterson Park avenue, Gardener, First Ward, $1.83 per day.

M. Boylan, 2208 E. Bank street, Gardener, First Ward, $1.83 per day.

H. C. Payne, 132 S. Washington street, Gardener, Third Ward, $1.83 per day.

J. Hogarth, 630 Jefferson street, Gardener, Twenty-second Ward, $1.83 per day.

O. Boylan, 2208 E. Bank street, Laborer, First Ward, $1.66 per day.

Jos. Simms, 2228 Jefferson street, Laborer, Sixth Ward, $1.66 per day.

W. F. Simms, 919 Patuxent street, Laborer, Sixth Ward, $1.66 per day.

T. Edwards, 613 N. Castle street, Laborer, Sixth Ward, $1.66 per day.

R. McGinn, 2052 E. Bank street, Laborer, First Ward, $1.66 per day.

Aug. Merkel, 3118 Foster avenue, Laborer, First Ward, $1.66 per day.

Jos. Walters, 827 Patuxent street, Laborer, First Ward, $1.66 per day.

Wm. Gould, 120 N. Patterson Park avenue, Laborer, Sixth Ward, $1.66 per day.

Jas. Watson, 218 Edgar Place, Laborer, Sixth Ward, $1.66 per day.

D. McDermott, 2105 E. Bank street, Laborer, First Ward, $1.66 per day.

T. O'Connell, 2028 Bank street, Laborer, First Ward, $1.66 per day.

Jas. Hughes, 510 Collington avenue, Laborer, Sixth Ward, $1.66 per day.

C. Schluter, 2112 Meyer street, Laborer, Sixth Ward, $1.66 per day.

J. G. Dopson, 1507 E. Fayette street, Painter, Third Ward, $1.66 per day.

Thos. A. Wiley, 802 Haley's court, Painter, Fifth Ward, $1.66 per day.

Chas. B. Kadell, 2414 Fairmount avenue, Painter, Sixth Ward, $1.66 per day.

M. Buehl, 4 Irvine Place, Painter, Third Ward, $1.66 per day.

Al. S. Jones, 2936 Elliott street, Painter, First Ward, $1.66 per day.

C. Thompson, 739 McHenry street, Carpenter, Eighteenth Ward, $2.50 per day.

John Naevy, 9 S. Broadway, Gardener, Third Ward, $1.83 per day.

*Riverside Park.*

(Ordinance No. 60, 1860.)

Thomas Clarke, 1538 Riverside avenue, Superintendent, Seventeenth Ward, $17 per week.

J. Seiffert, 1718 William street, Laborer, Seventeenth Ward, $1.66 per day.

J. Cassidy, 123 E. Fort avenue, Laborer, Seventeenth Ward, $1.66 per day.

J. McCurdy, 224 E. Barney street, Laborer, Seventeenth Ward, $1.66 per day.

W. Crispens, 1446 Riverside avenue, Laborer, Seventeenth Ward, $1.66 per day.

W. Allen, 1843 Covington street, Laborer, Seventeenth Ward, $1.66 per day.

W. H. Collins, 400 E. Fort avenue, Watchman, Seventeenth Ward, $1.57 per day.

J. Turner, 1516 Riverside avenue, Watchman, Seventeenth Ward, $1.42 per day.

*Federal Hill Park.*

(Ordinance No. 60, 1860.)

Frank Wade, 1213 Battery avenue, Watchman and Laborer, Seventeenth Ward, $2 per day.

G. Shire, 1131 Hall alley, Laborer, Seventeenth Ward, $1.66 per day.

J. J. McCarty, 1140 Riverside avenue, Laborer, Seventeenth Ward, $1.66 per day.

*Clifton Park.*

(Ordinance No. 60, 1860.)

D. C. Johnson, Clifton Park, Superintendent, Twenty-second Ward, $19.23 per week.

John Huff, Clifton Park, Laborer, Twenty-second Ward, $1.66 per day.

F. M. Johnson, 1833 Patterson Park avenue, Laborer, Sixth Ward, $1.66 per day.

J. Schwartz, 39 Gay street extended, Laborer, Twenty-second Ward, $1.66 per day.

K. Fewster, Clifton Park, Laborer, Twenty-second Ward, $1.66 per day.

J. P. Jones, Clifton Park, Laborer, Twenty-second Ward, $1.66 per day.

Wm. Gray, 2034 N. Washington street, Laborer, Twenty-second Ward, $1.66 per day.

R. McCullough, 29 Jackson street (Homestead), Laborer, Twenty-second Ward, $1.66 per day.
A. Campbell, 1515 York road, Laborer, Twenty-second Ward, $1.66 per day.
E. Frankenberger, Clifton Park, Laborer, Twenty-second Ward, $1.66 per day.
William Horn, 115 S. Register street, Park Police, Third Ward, $1.50 per day.
L. McShane, 209 S. Broadway, Park Police, Third Ward, $1.50 per day.
George Talbot, Clifton Park, Gardener, Twenty-second Ward, $2 per day.
Lewis Hughes, Clifton Park, Boy, Twenty-second Ward, 50 cents per day.
Thomas Jones, 233 Gorsuch avenue, Boy, Twenty-second Ward, 75 cents per day.
George F. Ekos, Homestead, Laborer, Twenty-second Ward, $1.66 per day.

*Johnston Park.*

(Ordinance No. 60, 1860.)

F. McLain, 1312 Wilcox street, Superintendent, Seventh Ward, $2 per day.
M. Byrnes, 1108 Harford avenue, Laborer, Seventh Ward, $1.66 per day.
Presto Keenan, 1313 Aisquith street, Laborer, Seventh Ward, $1.66 per day.

*Collington Park.*

(Ordinance No. 60, 1860.)

A. Dennert, 430 Calvin street, Superintendent, Fifth Ward, $2 per day.
Wm. Callahan, 415 E. Pratt street, Laborer, Seventh Ward, $1.66 per day.

Wm. Flaherty, 412 S. Collington avenue, Laborer, First Ward, $1.66 per day.

*Office of General Superintendent and Engineer.*

(Ordinance No. 60, 1860.)

C. H. Latrobe, Albion Hotel, Superintendent and Engineer, Ninth Ward, $3000 per annum.

J. W. Bollman, Jr., 1909 Edmondson avenue, Assistant Engineer, Nineteenth Ward, $1200 per annum.

E. W. Hayden, 201 W. Franklin street, Rodman, Eleventh Ward, $1.66 per day.

*Mt. Royal Terraces.*

(Ordinance No. 60, 1860.)

F. Ebert, 1730 Carlisle street, Superintendent, Seventh Ward, $14 per week.

John McLain, 1401 Ensor street, Laborer, Eighth Ward, $1.66 per day.

*Bolton Park.*

(Ordinance No. 60, 1860.)

Wm. Frank, 677 Franklin street, Laborer, Tenth Ward, $1.66 per day.

Sylvester Baseman, 2815 Fulton avenue, Laborer, Twenty-first Ward, $1.66 per day.

## BALTIMORE CITY FIRE DEPARTMENT.

(Code of 1893, Art. 20, Secs. 1 and 2.)

A. Roszel Cathcart, 1620 Linden avenue, Commissioner, Twelfth Ward, $1000 per annum.

Jas. C. Muller, 807 W. Fayette street, Commissioner, Thirteenth Ward, $1000 per annum.

Chas. M. Short, 218 E. Lafayette avenue, Commissioner, Eighth Ward, $1000 per annum.

(Code of 1893, Art. 20, Secs. 4 and 10.)

W. C. McAfee, 2216 Oak street, Chief Engineer, Twenty-second Ward, $2000 per annum.

G. W. Horton, 404 Colvin street, District Engineer, Fifth Ward, $1400 per annum.

Aug. Emrich, 1032 E. Monument street, District Engineer, Fifth Ward, $1400 per annum.

Frederick Branan, 324 W. Twenty-first street, District Engineer, Twenty-second Ward, $1400 per annum.

F. H. Lucas, 1013 N. Arlington avenue, District Engineer, Twentieth Ward, $1400 per annum.

L. H. Burkhardt, 1252 Barclay street, District Engineer, Twenty-second Ward, $1400 per annum.

W. H. Hartman, 1503 Aisquith street, District Engineer, Eighth Ward, $1400 per annum.

G. J. Linsenmeyer, 1435 Battery avenue, Superintendent Machinery, Seventeenth Ward, $1400 per annum. (Code of 1893, Art. 20, Sec. 4.)

Stanley Baker, 210 Laurens street, Secretary and Clerk, Twelfth Ward, $1200 per annum. (Ordinance No. 51, 1895-96.)

W. E. Hill, 1027 W. Hopkins avenue, Assistant Clerk, Fourteenth Ward, $900 per annum. (Ordinance No. 51, 1895-96.)

Dr. Alex. Hill, 223 N. Calvert street, Surgeon, Ninth Ward. One sick visit $1. Two accident visits $6.

Dr. D. R. Hoffman, 1028 W. Baltimore street, Veterinary, Fourteenth Ward, $1 per day.

Dr. C. J. Seigmund, 313 N. Caroline street, Veterinary, Fourth Ward, $3 per week.

*Police and Fire Alarm Telegraph.*

(Ordinance No. 10, 1894-95.)

L. Lemon, 2329 N. Calvert street, Superintendent, Twenty-second Ward, $3000 per annum.

W. E. Shuter, 301 E. North avenue, Operator, Eighth Ward, $1200 per annum.

J. J. McCoy, 408 M. Mulberry street, Operator, Tenth Ward, $1200 per annum.

C. C. Prince, 2318 E. Baltimore street, Operator, Sixth Ward, $1200 per annum.

M. J. Dean, 1612 E. Monument street, Operator, Fifth Ward, $1200 per annum.

H. C. Martin, 1206 E. Lafayette avenue, Operator, Eighth Ward, $1200 per annum.

W. F. Gettrust, 912 W. Fayette street, Operator, Thirteenth Ward, $1200 per annum.

J. V. Smith, 1511 N. Bond street, Lineman, Seventh Ward, $1200 per annum.

Robert Kane, 1003 N. Fulton avenue, Lineman, Nineteenth Ward, $1000 per annum.

D. Schaum, 435 N. Patterson Park avenue, Lineman, Sixth Ward, $1000 per annum.

J. W. Anderson, 1337 W. Lafayette avenue, Lineman, Twentieth Ward, $1000 per annum.

T. W. Glass, 1029 Hopkins avenue, Lineman, Seventh Ward, $1000 per annum.

*Engine Company No.* 1.

(Code of 1893, Art. 20, Secs. 4, 9, and 10.)

James T. Dunn, 621 W. German street, Captain, Thirteenth Ward, $1100 per annum.

Wm. F. Morrow, 522 Laurens street, Lieutenant, Twelfth Ward, $1000 per annum.

John H. Deal, 1519 Myrtle avenue, Engineman, Twentieth Ward, $1100 per annum.

William H. Hardy, 328 Poppleton street, Assistant Engineman, Thirteenth Ward, $900 per annum.

Louis J. Fresch, 507 N. Schroeder street, Hostler, Tenth Ward, $900 per annum.

Edward R. Addison, 126 N. Poppleton street, Pipeman, Thirteenth Ward, $800 per annum.

Albert Oelmann, 627 W. Saratoga street, Pipeman, Tenth Ward, $800 per annum.

George W. Bentz, 523 W. Saratoga street, Pipeman, Tenth Ward, $800 per annum.

Wilber D. Barker, 127 S. Poppleton street, Pipeman, Thirteenth Ward, $800 per annum.

Joseph G. Burger, 1313 N. Gilmor street, Pipeman, Nineteenth Ward, $800 per annum.

William S. Couzens, 1414 E. Lanvale street, Pipeman, Seventh Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

William S. Fort, 1923 Harlem avenue, Probationary, Nineteenth Ward, $500 per annum.

Harry L. Christopher, 604 S. Smallwood street, Substitute, Eighteenth Ward, $2.20 per day when employed.

William Thompson, 652 W. Lexington street, Substitute, Tenth Ward, $2.20 per day when employed.

John A. Berryman, 2114 W. Fayette street, Substitute, Eighteenth Ward, $2.20 per day when employed.

*Engine Company No. 2.*

(Code of 1893, Art. 20, Secs. 4, 9, and 10.)

Henry C. Dotter, 2327 Canton avenue, Captain, First Ward, $1100 per annum.

George C. Young, 224 N. Monroe street, Lieutenant, Nineteenth Ward, $1000 per annum.

Thomas S. Atkinson, 226 N. Monroe street, Engineman, Nineteenth Ward, $1100 per annum.

Daniel H. Weber, 427 S. Sharp street, Assistant Engineman, Ninth Ward, $900 per annum.

Frank Hines, 936 S. Sharp street, Hostler, Sixteenth Ward, $900 per annum.

Geo. H. Hewitt, 406 S. Sharp street, Pipeman, Ninth Ward, $800 per annum.

Chas. E. Rice, 1633 W. Lexington street, Pipeman, Nineteenth Ward, $800 per annum.

Wm. H. Bell, 1118 Cleveland street, Pipeman, Eighteenth Ward, $800 per annum.

Edward Tauber, 13 Carrollton avenue, Pipeman, Fourteenth Ward, $800 per annum.

Wm. Kimball, 1138 Hanover street, Pipeman, Seventeenth Ward, $800 per annum.

Wm. Landefeld, 405 Patterson Park avenue, Pipeman, Sixth Ward, $800 per annum.

Jas. A. DePuey, 1931 W. Lanvale street, Pipeman, Nineteenth Ward, $800 per annum.

John P. Jenkins, 1112 Columbia avenue, Substitute, Eighteenth Ward, $2.20 per day when employed.

H. R. Della, 1144 Hanover street, Substitute, Seventeenth Ward, $2.20 per day when employed.

Jos. B. Rhea, 809 Scott street, Substitute, Eighteenth Ward, $2.20 per day when employed.

*Engine Company No. 3.*

(Code of 1893, Art. 20, Secs. 4, 9, and 10.)

August Schlimm, 1010 Eastern avenue, Captain, Fourth Ward, $1100 per annum.

Charles E. Dewitt, 2452 W. Baltimore street, Lieutenant, Twenty-first Ward, $1000 per annum.

Wm. T. Hubbard, 31 S. Bond street, Engineman, Third Ward, $1100 per annum.

Joseph P. Whalen, 107 S. High street, Assistant Engineman, Fourth Ward, $900 per annum.

John F. Peerce, 407 N. Paca street, Hostler, Tenth Ward, $900 per annum.

Geo. L. Schlimm, 252 S. Exeter street, Pipeman, Fourth Ward, $800 per annum.

Herman Fumbaugh, 1817 E. Lombard street, Pipeman, Third Ward, $800 per annum.

Henry Meil, 1608 E. Chase street, Pipeman, Seventh Ward, $800 per annum.

Frank Doerer, 1417 N. Chester street, Pipeman, Sixth Ward, $800 per annum.

Arthur G. Harrison, 1746 E. Lombard street, Pipeman, Third Ward, $800 per annum.

John Grasmick, 1413 Bank street, Pipeman, Second Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

Joseph Nathan, 324 S. Eden street, Probationer, Third Ward, $500 per annum.

Andrew Kreamer, 109 N. Collington avenue, Substitute, Sixth Ward, $2.20 per day when employed.

Charles Frank, 408 N. Montford avenue, Substitute, Sixth Ward, $2.20 per day when employed.

*Engine Company No. 4.*

(Code of 1893, Art. 20, Secs. 4, 9, and 10.)

Jacob F. Rupp, 118 S. Gilmor street, Captain, Fourteenth Ward, $1100 per annum.

John Y. Owens, 1748 N. Chester street, Lieutenant, Sixth Ward, $1000 per annum.

Herbert W. Peerce, 725 E. Preston street, Engineman, Eighth Ward, $1100 per annum.

Frederick W. Weiss, 2007 Gough street, Assistant Engineman, First Ward, $900 per annum.

Israel D. Appleby, 1933 Hollins street, Hostler, Eighteenth Ward, $900 per annum.

Frank C. H. Berger, 908 Ensor street, Pipeman, Eighth Ward, $800 per annum.

Henry Y. Borerner, 707 Calvin Place, Eighth Ward, $800 per annum.

George A. Ford, 259 Cedar avenue, Pipeman, Twenty-second Ward, $800 per annum.

Frisby Lloyd, 1031 N. Washington street, Pipeman, Sixth Ward, $800 per annum.

Howard Travers, 436 Roland avenue, Pipeman, Twenty-second Ward, $800 per annum.

Harry C. Grimes, 904 W. Lexington street, Pipeman, Thirteenth Ward, $800 per annum.

Francis Heusmar, 24 Parkin street, Probationer; Thirteenth Ward, $500 per annum. (Ordinance No. 57, 1895-96.)

(Code of 1893, Art. 20, Secs. 4, 9, and 10.)

Constant Siebert, 1747 E. Preston street, Pipeman, Seventh Ward, $800 per annum.

George W. Warner, 907 N. Gay street, Substitute, Seventh Ward, $2.20 per day when employed.

Henry Bierman, 210 N. Schroeder street, Substitute, Fourteenth Ward, $2.20 per day when employed.

*Engine Company No.* 5.

(Code of 1893, Art. 20, Secs. 4, 9, and 10.)

Andrew W. German, 153 Milton avenue, Captain, Sixth Ward, $1100 per annum.

Charles Rosenthal, 12 S. Ann street, Lieutenant, Third Ward, $1000 per annum.

Frederick L. Nelson, 404 S. Ann street, Engineman, Second Ward, $1100 per annum.

John M. Foard, 1300 N. Chester street, Assistant Engineman, Sixth Ward, $900 per annum.
Henry Murphy, 331 S. Ann street, Hostler, First Ward, $900 per annum.
Henry R. Seippel, 103 S. Ann street, Pipeman, Third Ward, $800 per annum.
Wm. B. Baker, 108 S. Ann street, Pipeman, Third Ward, $800 per annum.
John F. Bilson, 2000 E. Lombard street, Pipeman, Third Ward, $800 per annum.
Anthony Sohowplein, 309 S. Register street, Pipeman, Second Ward, $800 per annum.
Joseph Nelson, 614 S. Chapel street, Pipeman, Second Ward, $800 per annum.
Joseph G. Smith, 1926 Fairmount avenue, Pipeman, Sixth Ward, $800 per annum.
Otto Leidtke, 815 Streeper street, Substitute, First Ward, $2.20 per day when employed.
J. W. Theiss, 1905 Jefferson street, Substitute, Sixth Ward, $2.20 per day when employed.

*Engine Company No. 6.*

(Code of 1893, Art. 20, Secs. 4, 9, and 10.)

Charles Betz, 426 Colvin street, Captain, Fifth Ward, $1100 per annum.
Robert R. Perry, 2219 Orleans street, Lieutenant, Sixth Ward, $1000 per annum.
Mathew Mulligan, 1027 Valley street, Engineman, Eighth Ward, $1100 per annum.
Frank Huart, 1804 E. Townsend street, Assistant Engineman, Seventh Ward, $900 per annum.
Andrew A. Albert, 935 N. Castle street, Hostler, Sixth Ward, $900 per annum.
George Sykes, 1004 E. Madison street, Pipeman, Fifth Ward, $800 per annum.

Isaac Cuddy, 806 N. Central avenue, Pipeman, Seventh Ward, $800 per annum.

Wm. McKay Morrow, 1841 N. Castle street, Pipeman, Sixth Ward, $800 per annum.

John T. Gordon, 2318 E. Fayette street, Pipeman, Sixth Ward, $800 per annum.

Frederick H. Kaufman, 407 N. Wolfe street, Pipeman, Sixth Ward, $800 per annum.

Gustave Miller, 507 N. Bond street, Pipeman, Sixth Ward, $800 per annum.

Charles Hesse, 1126 E. Lombard street, Pipeman, Fourth Ward, $800 per annum.

Andrew J. Bradley, 1017 Forrest Place, Substitute, Eighth Ward, $2.20 per day when employed.

George P. Evans, 922 E. Madison street, Substitute, Eighth Ward, $2.20 per day when employed.

*Engine Company No. 7.*

(Code of 1893, Art. 20, Secs. 4, 9, and 10.)

John Hoffman, 637 Pitcher street, Captain, Twentieth Ward, $1100 per annum.

Thomas Kerr, 518 N. High street, Lieutenant, Fifth Ward, $1000 per annum.

Samuel Stansbury, 1925 W. Baltimore street, Engineman, Eighteenth Ward, $1100 per annum.

Frank R. Nehren, 928 Argyle avenue, Assistant Engineman, Eleventh Ward, $900 per annum.

Harman Schiminger, 235 N. Poppleton street, Hostler, Tenth Ward, $900 per annum.

Charles A. Soistman, 602 Bradley street, Pipeman, Eleventh Ward, $800 per annum.

Geo. Schneider, 907 Madison avenue, Pipeman, Eleventh Ward, $800 per annum.

John Weinkamp, 655 W. Mulberry street, Pipeman, Tenth Ward, $800 per annum.

Wm. A. Hall, 711 Warner street, Pipeman, Sixteenth Ward, $800 per annum.
James T. Braden, 1821 Aisquith street, Pipeman, Eighth Ward, $800 per annum.
Samuel Seymour, 735 E. Fort avenue, Pipeman, Seventeenth Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

William T. Hughes, 710 Blucher avenue, Probationer, Twenty-second Ward, $500 per annum.
James H. Wentz, 306 Parkin street, Substitute, Thirteenth Ward, $2.20 per day when employed.
Bernard L. Scheive, 125 N. Green street, Substitute, Tenth Ward, $2.20 per day when employed.

*Engine Company No.* 8.

(Code of 1893, Art. 20, Secs. 4, 9, 10, 4N, 4O.)

Wm. J. Stewart, 424 N. Arlington avenue, Captain, Fourteenth Ward, $1100 per annum.
John W. Cook, 637 Mosher street, Lieutenant, Twentieth Ward, $1000 per annum.
Charles E. Freeberger, 1202 W. Franklin street, Engineman, Nineteenth Ward, $1100 per annum.
Wm. F. Awalt, 312 N. Poppleton street, Assistant Engineman, Tenth Ward, $900 per annum.
James McGlenan, 263 N. Schroeder street, Hostler, Thirteenth Ward, $900 per annum.
Greenbury Chapman, 954 W. Franklin street, Pipeman, Tenth Ward, $800 per annum.
Charles Airey, 255 N. Schroeder street, Pipeman, Thirteenth Ward, $800 per annum.
Thomas W. Jessop, 1617 N. Carey street, Pipeman, Twentieth Ward, $800 per annum.
William Eckert, 1033 Mulberry street, Pipeman, Fourteenth Ward, $800 per annum.

Walter F. Musgrove, Wesley avenue, "Annex," Pipeman, Twenty-first Ward, $800 per annum.

James McGee, 942 W. Lexington street, Pipeman, Thirteenth Ward, $800 per annum.

James O'Grady, Amity and Booth streets, Substitute, Thirteenth Ward, $2.20 per day when employed.

*Engine Company No. 9.*

(Code of 1893, Art. 20, Secs. 4, 9, 10, 4N, 4O.)

David H. Macaulay, 1211 N. Eden street, Captain, Seventh Ward, $1100 per annum.

Solomon Uhlfelder, 1641 E. Madison street, Lieutenant, Fifth Ward, $1000 per annum.

Daniel R. Rogers, 1033 McDonough street, Engineman, Seventh Ward, $1100 per annum.

Chas. A. Litchfield, 217 S. Mount street, Assistant Engineman, Fourteenth Ward, $900 per annum.

Elias J. Kipp, 930 N. Washington street, Hostler, Sixth Ward, $900 per annum.

James McDevitt, 803 N. Washington street, Pipeman, Sixth Ward, $800 per annum.

Wm. H. Cuddy, 1515 E. Madison street, Pipeman, Fifth Ward, $800 per annum.

Richard V. Pettinger, 1835 Jefferson street, Pipeman, Sixth Ward, $800 per annum.

Clinton Baker, 808 N. Wolfe street, Pipeman, Seventh Ward, $800 per annum.

Frank J. Smith, 2426 E. Fayette street, Pipeman, Sixth Ward, $800 per annum.

John Amend, 2209 Jefferson street, Pipeman, Sixth Ward, $800 per annum.

John Strohminger, 2024 E. Fayette street, Substitute, Sixth Ward, $2.20 per day when employed.

William Dollinger, 43 Belair avenue extended, Substitute, Twenty-second Ward, $2.20 per day when employed.

Chas. A. Edwards, 1235 N. Gay street, Substitute, Seventh Ward, $2.20 per day when employed.

*Engine Company No.* 10.

(Code of 1893, Art. 20, Secs. 4, 9, 10, 4N, 4O.)

Henry Stagge, 117 Bowen street, Captain, Eighteenth Ward, $1100 per annum.

Chas. Romoser, 1033 W. Cross street, Lieutenant, Eighteenth Ward, $1000 per annum.

John W. Walsh, 1115 W. Baltimore street, Engineman, Fourteenth Ward, $1100 per annum.

James Nugent, 419 S. Poppleton street, Assistant Engineman, Eighteenth Ward, $900 per annum.

Joseph Daley, 371 Baker street, Hostler, Twentieth Ward, $900 per annum.

J. G. Keilholtz, 896 W. Lombard street, Pipeman, Thirteenth Ward, $800 per annum.

Henry Zachman, 1145 W. Hamburg street, Pipeman, Eighteenth Ward, $800 per annum.

John Eigenbrodt, 1123 Bowen street, Pipeman, Eighteenth Ward, $800 per annum.

Edward A. Ward, 1515 Battery avenue, Pipeman, Seventeenth Ward, $800 per annum.

Chas. L. Smoot, 119 N. Paca street, Pipeman, Thirteenth Ward, $800 per annum.

Albert A. Torney, 127 Parkin street, Pipeman, Thirteenth Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

John Watson, 903 W. Mulberry street, Probationary, Tenth Ward, $500 per annum.

Jos. Buxbaum, 871 Ramsay street, Substitute, Eighteenth Ward, $2.20 per day when employed.
Daniel G. Rehmert, 1248 Columbia avenue, Substitute, Eighteenth Ward, $2.20 per day when employed.
Fred. Ganz, 847 Columbia avenue, Substitute, Eighteenth Ward, $2.20 per day when employed.

*Engine Company No.* 11.

(Code of 1893, Art. 20, Secs. 4, 9, 10, 4N, 4O.)

Michael A. Lind, 505 S. Patterson Park avenue, Captain, First Ward, $1100 per annum.
Thomas Flaherty, 311 S. Chester street, Lieutenant, First Ward, $1000 per annum.
John Calder, 422 S. Patterson Park avenue, Engineman, First Ward, $1100 per annum.
John Lindemann, 2036 Bank street, Assistant Engineman, First Ward, $900 per annum.
Patrick H. Birthistle, 1113 Stiles street, Hostler, Fourth Ward, $900 per annum.
John W. Barton, 22 Rose street, Pipeman, Sixth Ward, $800 per annum.
John F. Curry, 514 S. Montford avenue, Pipeman, First Ward, $800 per annum.
Albert H. Gier, 1913 E. Lombard street, Pipeman, Third Ward, $800 per annum.
Joshua H. Miller, 20 N. Rose street, Pipeman, Sixth Ward, $800 per annum.
George W. Shipley, 2236 Bank street, Pipeman, First Ward, $800 per annum.
Philip Peacock, 608 S. Washington street, Pipeman, Second Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

Geo. E. Wellslager, 1906 Bank street, Probationer, First Ward, $500 per annum.

John Behr, 135 N. Chapel street, Substitute, Sixth Ward, $2.20 per day when employed.

John Schultz, 129 N. Port street, Substitute, Sixth Ward, $2.20 per day when employed.

James N. Robb, 2124 E. Lombard street, Substitute, First Ward, $2.20 per day when employed.

*Engine Company No.* 12.

(Code of 1893, Art. 20, Secs. 4, 9, 10, 4N, 4O.)

Paul Linde, 537 Dolphin street, Captain, Eleventh Ward, $1100 per annum.

Edw. C. Klessell, 1442 Riverside avenue, Lieutenant, Seventeenth Ward, $1000 per annum.

Michael Lycett, 1512 Henry street, Engineman, Seventeenth Ward, $1100 per annum.

Wm. F. Walsh, 1646 S. Charles street, Assistant Engineman, Seventeenth Ward, $900 per annum.

Jos. W. Moore, 436 E. Fort avenue, Hostler, Seventeenth Ward, $900 per annum.

Peter McGonigle, 1265 Riverside avenue, Pipeman, Seventeenth Ward, $800 per annum.

Jas. J. Knox, 1428 Cooksie street, Pipeman, Seventeenth Ward, $800 per annum.

Chas. H. Wheatley, 1725 Covington street, Pipeman, Seventeenth Ward, $800 per annum.

Matthew Carroll, 1723 Covington street, Pipeman, Seventeenth Ward, $800 per annum.

Albert Raine, 1102 William street, Pipeman, Seventeenth Ward, $800 per annum.

Jos. P. McKenna, 14 Beverly street, Pipeman, Seventeenth Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

Geo. W. Stewart, 1141 S. Sharp street, Probationer, Seventeenth Ward, $500 per annum.

Edward C. Walker, 314 E. Randall street, Substitute, Seventeenth Ward, $2.20 per day when employed.
Robt. F. Forsythe, 1429 William street, Substitute, Seventeenth Ward, $2.20 per day when employed.
Henry Marks, 402 E. Cross street, Substitute, Fifteenth Ward, $2.20 per day when employed.

*Engine Company No.* 13.

(Code of 1893, Art. 20, Secs. 4, 9, 10, 4N, 4O.)

Samuel R. Watkins, 8 Polk street, "Annex," Captain, Twenty-second Ward, $1100 per annum.
James Nolan, 230 N. Fremont street, Lieutenant, Tenth Ward, $1000 per annum.
John A. Bannon, 1117 Riggs avenue, Engineman, Twentieth Ward, $1100 per annum.
J. Wm. Eckhardt, 317 E. Fort avenue, Assistant Engineman, Seventeenth Ward, $900 per annum.
John F. McKenzie, 385 E. Waverly avenue, Hostler, Twenty-second Ward, $900 per annum.
Wilber Pearce, 1203 Winchester street, Pipeman, Twentieth Ward, $800 per annum.
Louis Buhler, Lake Montebello, Pipeman, Twenty-second Ward, $800 per annum.
Clifton Hedley, 1324 Mosher street, Pipeman Twentieth Ward, $800 per annum.
Frederick Beck, 424 Wehage street, Pipeman, Seventeenth Ward, $800 per annum.
Frederick Vishmeyer, 652 W. Mulberry street, Pipeman, Tenth Ward, $800 per annum.
Albert Schyne, 642 Mosher street, Pipeman, Twentieth Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

Louis Moore, 117 Amity street, Probationer, Thirteenth Ward, $500 per annum.

Thomas D. Healy, 1907 Frederick avenue, Substitute, Eighteenth Ward, $2.20 per day when employed.
John Mahrer, 948 W. Lexington street, Substitute, Fourteenth Ward, $2.20 per day when employed.

*Engine Company No.* 14.

(Code of 1893, Art. 20, Secs. 4, 9, 10, 4N, 4O.)

George W. Smith, 903 Columbia avenue, Captain, Eighteenth Ward, $1100 per annum.
Wm. C. D. Knight, 1438 E. Fort avenue, Lieutenant, Seventeenth Ward, $1000 per annum.
John Gaffney, 1925 Hollins street, Engineman, Eighteenth Ward, $1100 per annum.
Cornelius P. Kuhan, 18 S. Monroe street, Assistant Engineman, Eighteenth Ward, $900 per annum.
Joseph Lanvender, 771 W. Mulberry street, Hostler, Tenth Ward, $900 per annum.
C. Allen Orem, 2010 W. Lanvale street, Pipeman, Nineteenth Ward, $800 per annum.
Charles H. Baker, 1928 Hollins street, Pipeman, Eighteenth Ward, $800 per annum.
Lunard Jessop, 69 S. Monroe street, Pipeman, Fourteenth Ward, $800 per annum.
Harry C. Showacre, 1944 Hollins street, Pipeman, Eighteenth Ward, $800 per annum.
George D. Shauks, 1937 Hollins street, Pipeman, Eighteenth Ward, $800 per annum.
Herman Suger, 1926 Frederick avenue, Pipeman, Eighteenth Ward, $800 per annum.
Herman Lang, 1119 Pinkney Place, Substitute, Eighteenth Ward, $2.20 per day when employed.
Frank Squire, 17 S. Carey street, Substitute, Nineteenth Ward, $2.20 per day when employed.
Frederick Esslinger, 2102 Wilkens avenue, Substitute, Eighteenth Ward, $2.20 per day when employed.

*Engine Company No.* 15.

(Code of 1893, Art. 20, Secs. 4, 9, 10, 4A, 4B, 4C, 4P.)

John Todd, 7 S. Carey street, Captain, Nineteenth Ward, $1100 per annum.

James A. Campbell, 525 N. Paca street, Lieutenant, Eleventh Ward, $1000 per annum.

John Conway, 909 Columbia avenue, Engineman, Eighteenth Ward, $1100 per annum.

John J. Cahill, 909 McHenry street, Assistant Engineman, Thirteenth Ward, $900 per annum.

Edward R. McCullough, 7 N. Bond street, Assistant Engineman, Third Ward, $900 per annum.

Mark Hill, 1604 W. Franklin street, Hostler, Nineteenth Ward, $900 per annum.

Charles L. Schulte, 432 Aisquith street, Pipeman, Fifth Ward, $800 per annum.

Frank J. Lavender, 228 N. Pine street, Pipeman, Tenth Ward, $800 per annum.

August Lang, 818 St. Peter street, Pipeman, Eighteenth Ward, $800 per annum.

John Kahl, 10 E. Hamburg street, Pipeman, Fifteenth Ward, $800 per annum.

Wm. E. Stewart, 129 N. Front street, Pipeman, Fourth Ward, $800 per annum.

John A. Henneman, 1819 Division street, Pipeman, Twelfth Ward, $800 per annum.

Ebenezer Pyle, 105 S. Carey street, Pipeman, Fourteenth Ward, $800 per annum.

Michael J. Ready, 528 N. Calvert street, Pipeman, Ninth Ward, $800 per annum.

Charles P. Griffin, 1141 W. Cross street, Pipeman, Eighteenth Ward, $800 per annum.

John J. Flynn, 1020 Eastern avenue, Pipeman, Fourth Ward, $800 per annum.

John F. Stegman, 1217 Marshal avenue, Pipeman, Seventeenth Ward, $800 per annum.
Charles A. Fraser, 1208 W. Lombard street, Pipeman Fourteenth Ward, $800 per annum.
George L. Kransz, 205 E. Grindall street, Pipeman, Fifteenth Ward, $800 per annum.
Louis Herman, 323 S. Caroline street, Detail Ladderman, Third Ward, $800 per annum.
John M. Frederick, 1724 Harford avenue, Lieutenant, Eighth Ward, $1000 per annum.

(Ordinance No. 97, 1895-96.)

James G. Guy, 1929 E. Fayette street, Probationary, Sixth Ward, $500 per annum.
Howard R. Waite, 1559 N. Gilmor street, Probationary, Twentieth Ward, $500 per annum.
Francis H. Carr, 1905 McHenry street, Probationary, Eighteenth Ward, $500 per annum.
Bernhard Goetzinger, 2209 Mullikin street, Probationary, Sixth Ward, $500 per annum.
John H. Barker, 732 Columbia avenue, Substitute, Eighteenth Ward, $2.20 per day when employed.
Charles T. Taylor, 1525 S. Charles street, Substitute, Seventeenth Ward, $2.20 per day when employed.
John Rippel, 2021 Mary Anne street, Substitute, Eighteenth Ward, $2.20 per day when employed.

*Engine Company No.* 16.

(Code of 1893, Art. 20, Sec. 4.)

John H. Bortell, 9 N. Bond street, Captain, Third Ward, $1100 per annum.
Louis Harrer, 227 S. Caroline street, Lieutenant, Third Ward, $1000 per annum.
Wm. C. Stallings, 309 S. Ann street, First Pilot, First Ward, $1000 per annum.

Iverson J. Moon, 725 Hanover street, Second Pilot, Fifteenth Ward, $1000 per annum.

Thomas H. Meushaw, 2204 E. Lombard street, Engineman, First Ward, $1100 per annum.

William L. Sbisa, 2227 E. Lombard street, Assistant Engineman, First Ward, $900 per annum.

Joseph Zeidler, 2009 Gough street, Assistant Engineman, First Ward, $900 per annum.

James H. Hoey, 218 S. Castle street, Stoker, First Ward, $800 per annum.

Lawrence T. Rudolph, 1414 Riverside avenue, Stoker, Seventeenth Ward, $800 per annum.

John Stanton, 2206 E. Lombard street, Stoker, First Ward, $800 per annum.

John T. Seabreeze, 1202 Gough street, Pipeman, Fourth Ward, $800 per annum.

John Koos, 1934 E. Lombard street, Pipeman, First Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

John B. Winters, 1629 Division street, Probationer, Twelfth Ward, $500 per annum.

Charles W. Dolch, 124 S. Register street, Substitute, Third Ward, $2.20 per day when employed.

Robert R. Higgins, 2125 Fairmount avenue, Substitute, Sixth Ward, $2.20 per day when employed.

*Engine Company No.* 17.

(Ordinance No. 8, 1894-95.)

John Preuger, 1411 W. Hull street, Captain, Seventeenth Ward, $1100 per annum.

Fred. J. Stroehlein, 1913 Orleans street, Lieutenant, Sixth Ward, $1000 per annum.

Thomas F. Sexton, 105 W. Clement street, Engineman, Seventeenth Ward, $1100 per annum.

John I. Cranford, 1408 E. Fort avenue, Assistant Engineman, Seventeenth Ward, $900 per annum.

Casper Kraft, 1103 Riverside avenue, Hostler, Seventeenth Ward, $900 per annum.

James Catterton, 1460 William street, Pipeman, Seventeenth Ward, $800 per annum.

John Moeller, 1330 E. Fort avenue, Pipeman, Seventeenth Ward, $800 per annum.

Thomas Voyce, 529 E. Fort avenue, Pipeman, Seventeenth Ward, $800 per annum.

Frank A. Kraft, 1460 William street, Pipeman, Seventeenth Ward, $800 per annum.

Peter Lohman, 500 E. Fort avenue, Pipeman, Seventeenth Ward, $800 per annum.

John F. Moran, 1113 William street, Pipeman, Seventeenth Ward, $800 per annum.

Daniel Vogelgesang, 1425 Covington street, Pipeman, Seventeenth Ward, $800 per annum.

James Nash, 1516 Riverside avenue, Substitute, Seventeenth Ward, $2.20 per day when employed.

Charles Sayer, 1511 Light street, Substitute, Seventeenth Ward, $2.20 per day when employed.

Patrick Ward, 1336 Towson street, Substitute, Seventeenth Ward, $2.20 per day when employed.

*Engine Company No.* 18.

(Code of 1893, Art. 20, Secs. 4K, 4L.)

John H. Morgan, 2360 Oak street, Captain, Twenty-second Ward, $1100 per annum.

William H. Quincy, 402 E. North avenue, Lieutenant, Twenty-second Ward, $1000 per annum.

Thomas S. Brown, 122 W. Twenty-fourth street, Engineman, Twenty-second Ward, $1100 per annum.

Elijah J. B. Moore, 1306 Valley street, Assistant Engineman, Eighth Ward, $900 per annum.

John W. Potts, 2356 Oak street, Hostler, Twenty-second Ward, $900 per annum.

Robert H. Blatchley, 318 W. Twenty-first street, Pipeman, Twenty-second Ward, $800 per annum.

Michael J. Griffen, 314 W. Twenty-first street, Pipeman, Twenty-second Ward, $800 per annum.

William C. McKenna, 322 W. Twenty-first street, Pipeman, Twenty-second Ward, $800 per annum.

Wm. J. McDonald, 205 W. Twenty-fourth street, Pipeman, Twenty-second Ward, $800 per annum.

Geo. U. McFadden, 3070½ Cedar avenue, Pipeman, Twenty-second Ward, $800 per annum.

Thomas H. Sutton, 2441 Barclay street, Pipeman, Twenty-second Ward, $800 per annum.

Joseph J. Presley, 1420 Druid Hill avenue, Pipeman, Twelfth Ward, $800 per annum.

Ralph J. Hill, 440 Turner Place, Substitute, Twenty-second Ward, $2.20 per day when employed.

*Engine Company No.* 19.

(Ordinance No. 7, 1894-95.)

Benjamin Price, 2615 Atlantic avenue, Captain, Twenty-second Ward, $1100 per annum.

George E. Croucher, 2012 E. North avenue, Lieutenant, Twenty-second Ward, $1000 per annum.

John N. Bletzer, 722 S. Bond street, Engineman, Second Ward, $1100 per annum.

Jacob S. Corns, 1812 N. Broadway, Assistant Engineman, Seventh Ward, $900 per annum.

Michael J. Farley, 1827 N. Bond street, Hostler, Seventh Ward, $900 per annum.

John F. Maguire, 1843 N. Register street, Pipeman, Seventh Ward, $800 per annum.

Nicholas Barrett, 519 N. Exeter street, Pipeman, Fifth Ward, $800 per annum.

Charles C. Neilson, 1622 N. Wolfe street, Pipeman, Seventh Ward, $800 per annum.

Harry F. Bodge, 1505 N. Washington street, Pipeman, Sixth Ward, $800 per annum.

Martin Kirby, 2801 Fait avenue, Pipeman, First Ward, $800 per annum.

Louis Lohmann, 1546 N. Gay street, Pipeman, Sixth Ward, $800 per annum.

James Radford, 1712 E. Lanvale street, Pipeman, Seventh Ward, $800 per annum.

John Mosher, 15 Belair avenue, Substitute, Twenty-second Ward, $2.20 per day when employed.

Henry Heinze, 706 N. Caroline street, Substitute, Fifth Ward, $2.20 per day when employed.

*Engine Company No.* 20.

(Ordinance No. 1, 1895-96.)

George F. Kinnard, 3024 North West street, Captain, Twenty-first Ward, $1100 per annum.

William I. Johns, 1430 E. Lanvale street, Lieutenant, Seventh Ward, $1000 per annum.

Thomas F. Sadler, 1319 Edmondson avenue, Engineman, Nineteenth Ward, $1100 per annum.

George C. Lloyd, 1213 W. Cross street, Assistant Engineman, Eighteenth Ward, $900 per annum.

John J. Buck, 1722 Eighth street, Hostler, Twenty-first Ward, $900 per annum.

J. Oscar Healey, 2905 Walbrook avenue, Pipeman, Twenty-first Ward, $800 per annum.

Philip Bowen, 3022 North West street, Pipeman, Twenty-first Ward, $800 per annum.

Samuel W. Marker, 208 N. Arlington avenue, Pipeman, Fourteenth Ward, $800 per annum.

Hugh P. Fox, 1904 Braddish avenue, Pipeman, Twenty-first Ward, $800 per annum.

Walter J. Woods, 2814 W. Lanvale street, Pipeman, Twenty-first Ward, $800 per annum.

William J. Watkins, 625 Payson street, Pipeman, Nineteenth Ward, $800 per annum.

Richard H. Hobson, 1901 Braddish avenue, Pipeman, Twenty-first Ward, $800 per annum.

Charles J. Grasmick, 214 S. Patterson Park avenue, Substitute, Second Ward, $2.20 per day when employed.

*Engine Company No.* 21.

(Ordinance No. 1, 1896-97.)

Lawrence Pistel, 1544 Argyle avenue, Captain, Twentieth Ward, $1100 per annum.

William H. Perrine, 1107 Proctor street, Lieutenant, Eighth Ward, $1000 per annum.

Jackson Hedrick, 121 N. Patterson Park avenue, Engineman, Sixth Ward, $1100 per annum.

Thomas S. Roberts, 30 E. Twenty-sixth street, Assistant Engineman, Twenty-second Ward, $900 per annum.

Thomas R. Wann, 508 Oliver Place, Hostler, Twenty-second Ward, $900 per annum.

J. Frederick Schaefer, 719 W. Baltimore street, Pipeman, Thirteenth Ward, $800 per annum.

James L. Clarken, 226 Hickory avenue, Pipeman, Twenty-second Ward, $800 per annum.

Burke Whitmore, 610 Hickory avenue, Pipeman, Twenty-second Ward, $800 per annum.

Charles Zimmerman, 244 Roland avenue, Pipeman, Twenty-second Ward, $800 per annum.

Harry R. Walters, 501 Roland avenue, Pipeman, Twenty-second Ward, $800 per annum.

William Bateman, 225 President street, Pipeman, Fourth Ward, $800 per annum.

John W. Bell, 6006 Hickory avenue, Pipeman, Twenty-second Ward, $800 per annum.

Lee Ebaugh, 12 Stone hill, Mt. Vernon, Substitute, Twenty-second Ward, $2.20 per day when employed.

*Hook and Ladder Company No.* 1.

(Code of 1893, Art. 20, Secs. 4, 9 and 10.)

E. Louis Shipley, 1819 Druid Hill avenue, Captain, Twelfth Ward, $1100 per annum.

Franklin A. Teal, 1206 Light street, Lieutenant, Seventeenth Ward, $1000 per annum.

Geo. W. Haskell, 325 S. Ann street, Tillerman, Second Ward, $900 per annum.

Harry A. Donahoo, 1332 Hillman street, Assistant Tillerman, Seventh Ward, $900 per annum.

John T. Mulligan, 14 N. Front street, Hostler, Fourth Ward, $900 per annum.

Z. T. Seabreeze, 211 Gough street, Ladderman, Third Ward, $800 per annum.

Joseph Daily, 132 N. Exeter street, Ladderman, Fourth Ward, $800 per annum.

James P. Lyons, 735 E. Baltimore street, Ladderman, Fourth Ward, $800 per annum.

Wm. G. Schultz, 2011 Gough street, Ladderman, First Ward, $800 per annum.

John R. Herr, 2313 Fairmount avenue, Ladderman, Sixth Ward, $800 per annum.

Wm. R. Bolgiano, 768 W. Cross street, Ladderman, Eighteenth Ward, $800 per annum.

Q. A. G. Hughes, 1811 Fairmount avenue, Ladderman, Third Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

John W. Wittig, 1705 Gough street, Probationer, Second Ward, $500 per annum.

James J. Clancey, 573 E. Monument street, Substitute, Eighth Ward, $2.20 per day when employed.

Frank Dolan, 145 N. Gay street, Substitute, Ninth Ward, $2.20 per day when employed.

*Hook and Ladder Company No. 2.*

(Code of 1893, Art. 20, Secs. 4, 9 and 10.)

Emil Heise, 1208 Jackson street, Captain, Fourth Ward, $1100 per annum.

John L. Emerson, 2406 Druid Hill avenue, Lieutenant, Twenty-first Ward, $1000 per annum.

Frederick W. Johnston, Jr., 1120 W. Saratoga street, Tillerman, Fourteenth Ward, $900 per annum.

Geo. E. Fornwalt, 1302 Lafayette avenue, Assistant Tillerman, Twentieth Ward, $900 per annum.

Thomas Montgomery, 121 N. Paca street, Hostler, Tenth Ward, $900 per annum.

Cooper Elliott, 1318 E. Monument street, Ladderman, Fifth Ward, $800 per annum.

Chas. W. Steinwedel, 13 Pulaski street, Ladderman, Eighteenth Ward, $800 per annum.

Wm. P. Burke, 2020 Eastern avenue, Ladderman, First Ward, $800 per annum.

George E. McNeil, 607 S. Patterson Park avenue, Ladderman, First Ward, $800 per annum.

Edgar T. Beach, 120 Poppleton street, Ladderman, Thirteenth Ward, $800 per annum.

George W. Batchelor, 1005 W. Baltimore street, Ladderman, Fourteenth Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

Geo. J. Hamilton, 411 N. Howard street, Probationer, Eleventh Ward, $500 per annum.

Chas. W. Kennedy, 2511 W. Fairmount street, Substitute, Twenty-first Ward, $2.20 per day when employed.

Wm. Shipferling, 222 E. Cross street, Substitute, Fifteenth Ward, $2.20 per day when employed.

Stephen Cosgrove, 831 Woodward street, Substitute, Eighteenth Ward, $2.20 per day when employed.

*Hook and Ladder Company No. 3.*

(Code of 1893, Art. 20, Secs. 4, 9, 10, 4E, 4F.)

George W. Foxwell, 1911 Bank street, Captain, First Ward, $1100 per annum.

Peter Nelson, 14 S. Ann street, Lieutenant, Third Ward, $1000 per annum.

John N. Downes, 2121 Orleans street, Tillerman, Sixth Ward, $900 per annum.

James F. Rielly, 1633 E. Lombard street, Assistant Tillerman, Third Ward, $900 per annum.

William Hastler, 1925 Canton avenue, Hostler, Second Ward, $900 per annum.

John McClellan, 1814 Fairmount avenue, Ladderman, Third Ward, $800 per annum.

Frederick Grouling, 2031 Canton avenue, Ladderman, Second Ward, $800 per annum.

Christian Fitzburger, 123 S. Caroline street, Ladderman, Third Ward, $800 per annum.

Harry Courtney, 1827 Ensor street, Ladderman, Eighth Ward, $800 per annum.

Michael E. Lynch, 712 S. Dallas street, Ladderman, Second Ward, $800 per annum.

Joseph M. Diggs, 214 S. Castle street, Ladderman, First Ward, $800 per annum.

Anton Kallinger, 19 S. Castle street, Substitute, First Ward, $2.20 per day when employed.

Gustavus Stolinske, 605 S. Durham street, Substitute, Second Ward, $2.20 per day when employed.

*Hook and Ladder Company No. 4.*

(Code of 1893, Art. 20, Secs. 4, 9, 10, 4E, 4F.)

Andrew J. Bilson, 19 E. Lanvale street, Captain, Eighth Ward, $1100 per annum.

Harry J. Carle, 1009 Pennsylvania avenue, Lieutenant, Eleventh Ward, $1000 per annum.

John Kurne, 415 W. Hoffman street, Tillerman, Twelfth Ward, $900 per annum.

Henry Kabernagel, 1205 Winchester street, Assistant Tillerman, Twentieth Ward, $900 per annum.

Andrew J. Connelly, 411 N. Pine street, Hostler, Tenth Ward, $900 per annum.

Chas. Sapp, 1418 W. Pratt street, Ladderman, Fourteenth Ward, $800 per annum.

George E. Gill, 319 N. Schroeder street, Ladderman, Tenth Ward, $800 per annum.

Frank A. Hanson, 905 W. Franklin street, Ladderman, Tenth Ward, $800 per annum.

Clarence A. Kirby, 2462 Francis street, Ladderman, Twenty-first Ward, $800 per annum.

Milton Quigley, 817 George street, Ladderman, Tenth Ward, $800 per annum.

John J. Clancy, 1626 Lamont avenue, Ladderman, Eighth Ward, $800 per annum.

Charles L. Wain, 2125 Madison avenue, Ladderman, Twelfth Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

George W. Fee, 1709 Presbury street, Probationer, Twentieth Ward, $500 per annum.

James Boyle, Twenty-third, near Hampden avenue, Substitute, Twenty-second Ward, $2.20 per day when employed.

Wm. H. Thompson, 2106 Vine street, Substitute, Twenty-first Ward, $2.20 per day when employed.

Robert W. Stumpp, 805 N. Howard street, Substitute, Eleventh Ward, $2.20 per day when employed.

*Hook and Ladder Company No. 5.*

(Code of 1893, Art. 20, Secs. 4, 10, 4E, 4F.)

Thomas J. Strahler, 1320 Ensor street, Captain, Seventh Ward, $1100 per annum.

Lawrence Blake, 1543 Aisquith street, Lieutenant, Eighth Ward, $1000 per annum.

Peter B. Mullen, 1332 Hillman street, Tillerman, Eighth Ward, $900 per annum.

Alexander McFaul, 2021 Gough street, Assistant Tillerman, First Ward, $900 per annum.

Wm. Quinn, 1034 N. Eden street, Hostler, Seventh Ward, $900 per annum.

Wm. Wiley, 1308 Harford avenue, Ladderman, Seventh Ward, $800 per annum.

James McCarron, 2002 E. Chase street, Ladderman, Sixth Ward, $800 per annum.

Wm. H. Cullen, 1029 Valley street, Ladderman, Eighth Ward, $800 per annum.

Frederick W. Harman, 405 N. Spring street, Ladderman, Sixth Ward, $800 per annum.

Geo. F. Thompson, 1049 Harford avenue, Ladderman, Seventh Ward, $800 per annum.

Robert F. Creamer, 597 N. Gay street, Ladderman, Fifth Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

Wm. H. Darney, Mine Bank lane, Probationary, Twenty-second Ward, $500 per annum.

Henry J. Smith, 1744 E. Chase street, Probationary, Seventh Ward, $500 per annum.

Michael J. Krum, 1104 E. Hoffman street, Substitute, Eighth Ward, $2.20 per day when employed.

*Hook and Ladder Company No. 6.*

(Code of 1893, Art. 20, Secs. 4, 10, 4E, 4F.)

Thos. D. O'Keefe, 1343 S. Charles street, Captain, Seventeenth Ward, $1100 per annum.

T. Edward Burch, 2209 Gough street, Lieutenant, Second Ward, $1000 per annum.

James J. Gill, 8 E. West street, Tillerman, Seventeenth Ward, $900 per annum.

Amos G. Bramble, 1303 Hanover street, Assistant Tillerman, Seventeenth Ward, $900 per annum.

Louis Matthaei, 1419 Hanover street, Hostler, Seventeenth Ward, $900 per annum.

Henry Troepfer, 1415 Hanover street, Ladderman, Seventeenth Ward, $800 per annum.

Charles F. Fay, 21 E. Ostend street, Ladderman, Seventeenth Ward, $800 per annum.

William Leonard, 1116 Hanover street, Ladderman, Seventeenth Ward, $800 per annum.

Joseph Neubert, 1364 Andre street, Ladderman Seventeenth Ward, $800 per annum.

Philip J. Knell, 1426 S. Charles street, Ladderman, Seventeenth Ward, $800 per annum.

Henry Ludwig, 865 Ramsay street, Ladderman, Eighteenth Ward, $800 per annum.

George S. Koller, 618 E. Clement street, Ladderman, Seventeenth Ward, $800 per annum.

Gerhardt Taberling, 1442 Riverside avenue, Substitute, Seventeenth Ward, $2.20 per day when employed.
John R. Buddy, 1638 Marshal avenue, Substitute, Seventeenth Ward, $2.20 per day when employed.
Joseph Barrett, 1421 E. Clement street, Substitute, Seventeenth Ward, $2.20 per day when employed.

*Hook and Ladder Company No.* 10.

(Ordinance No. 5, 1895-96.)

Malcolm W. Jordan, 502 W. Biddle street, Captain, Eleventh Ward, $1100 per annum.
William A. Meushaw, 27 Riggs avenue extended, Lieutenant, Twenty-first Ward, $1000 per annum.
William F. Beall, 1139 N. Calhoun street, Tillerman, Twentieth Ward, $900 per annum.
John J. Purcell, 1605 Riggs avenue, Assistant Tillerman, Nineteenth Ward, $900 per annum.
J. Thomas Higdon, 513 Wyeth street, Hostler, Eighteenth Ward, $900 per annum.
John Sullivan, 1007 N. Calhoun street, Ladderman, Twentieth Ward, $800 per annum.
Charles E. Brown, 808 N. Carey street, Ladderman, Twentieth Ward, $800 per annum.
Conrad Garbe, 107 E. Gittings street, Ladderman, Seventeenth Ward, $800 per annum.
William White, 1101 N. Carrollton avenue, Ladderman, Twentieth Ward, $800 per annum.
Wm. H. Siebert, 3128 Elliott street, Ladderman, First Ward, $800 per annum.
John J. Schlag, 1114 Scott street, Ladderman, Eighteenth Ward, $800 per annum.
Joseph Knight, 1447 Battery avenue, Ladderman, Seventeenth Ward, $800 per annum.
George S. Ellis, 345 S. Stricker street, Substitute, Eighteenth Ward, $2.20 per day when employed.

Frederick Hedderick, 405 Smallwood street, Substitute, Eighteenth Ward, $2.20 per day when employed.

*Chemical Engine Company No. 1.*

(Code of 1893, Art. 20, Secs. 4 and 10.)

Edward W. Steinacker, 5 Brunswick street, Captain, Twenty-first Ward, $900 per annum.

John A. Epp, 434 Frederick avenue, Hostler, Twenty-first Ward, $800 per annum.

Antone Yinger, 2210 Wilkens avenue, Pipeman, Eighteenth Ward, $800 per annum.

(Ordinance No. 97, 1895-96.)

R. E. L. Johns, 1613 E. Lanvale street, Probationer, Seventh Ward, $500 per annum.

Wm. Morsburger, 119 Millington avenue, Substitute, Twenty-first Ward, $2.20 per day when employed.

*Chemical Engine Company No. 2.*

(Code of 1893, Art. 20, Secs. 4 and 10.)

James K. Merriken, 3019 Pennsylvania avenue, Captain, Twenty-first Ward, $900 per annum.

Christian Freyer, 2013 Walbrook avenue, Hostler, Twenty-first Ward, $800 per annum.

John M. Gilleland, 1301 Winchester street, Pipeman, Twentieth Ward, $800 per annum.

*Chemical Engine Company No. 3.*

(Code of 1893, Art. 20, Secs. 4 and 10.)

James A. Clarke, 320 W. Twenty-first street, Captain, Twenty-second Ward, $900 per annum.

James B. Kelly, 559 Laurens street, Hostler, Twelfth Ward, $800 per annum.

Charles M. Johannes, 2107 Jefferson street, Pipeman, Twenty-second Ward, $800 per annum.

*Chemical Engine Company No. 4.*

(Code of 1893, Art. 20, Secs. 4 and 10.)

William H. Taylor, 3108 York road, Captain, Twenty-second Ward, $900 per annum.

Wm. Lamb, 156 Old York road, Hostler, Twenty-second Ward, $800 per annum.

James Hart, 122 Old York road, Pipeman, Twenty-second Ward, $800 per annum.

George Hanauer, 405 N. Castle street, Probationary, Sixth Ward, $500 per annum. (Ordinance No. 97, 1895-96.)

*Chemical Engine Company No. 5.*

(Code of 1893, Art. 20, Secs. 4 and 10.)

Robert H. Dougherty, 414 Jefferson street ("Annex"), Captain, Twenty-second Ward, $900 per annum.

Ambrose Spangler, 18 Gorsuch avenue, Hostler, Twenty-second Ward, $800 per annum.

Henry J. Linck, 21 Taylor street, Pipeman, Twenty-second Ward, $800 per annum.

Emil L. Cobabe, 330 Harford road, Substitute, Twenty-second Ward, $2.20 per day when employed.

*Chemical Engine Company No. 6.*

(Code of 1893, Art. 20, Secs. 4 and 10.)

John A. McKew, 2028 E. Preston street, Captain, Sixth Ward, $900 per annum.

Zachariah H. Foote, 68 Belair avenue, Hostler, Twenty-second Ward, $800 per annum.

Oliver F. Cannoles, 1409 N. Gay street, Pipeman, Seventh Ward, $800 per annum.

*Chemical Engine Company No. 7.*

(Code of 1893, Art. 20, Secs. 4 and 10.)

James J. Reynolds, 431 Roland avenue, Captain, Twenty-second Ward, $900 per annum.

Edward E. Harp, 3106 Cedar avenue, Hostler, Twenty-second Ward, $800 per annum.

John L. Thomas, 295 Chestnut avenue, Pipeman, Twenty-second Ward, $800 per annum.

John R. Miller, 729 Third avenue, Pipeman, Twenty-second Ward, $800 per annum.

*Hook and Ladder Company No. 9.*

(Code of 1893, Art. 20, Secs. 4 and 10.)

John W. Schaffer, 522 Oliver Place, Hostler, Twenty-second Ward, $800 per annum.

*Hook and Ladder Company No. 7.*

(Code of 1893, Art. 20, Secs. 4 and 10.)

A. J. McCormick, 503 Friendship lane, Hostler, Twenty-second Ward, $800 per annum.

*Hook and Ladder Company No. 8.*

(Code of 1893, Art. 20, Secs. 4 and 10.)

John L. Durham, 137 Millington avenue, Hostler, Twenty-first Ward, $800 per annum.

*Pensioners.*

(Code of 1893, page 140.)

W. G. Miller, 1627 Gough street, Pensioner, Third Ward, $400 per annum.

G. H. Little, Pikesville, Pensioner, County, $400 per annum.

J. R. Battee, 1213 High alley, Pensioner, Fourth Ward, $400 per annum.

John Wernsing, 912 Greenmount avenue, Pensioner, Eighth Ward, $400 per annum.

Wm. Gordon, 1230 E. Mounment street, Pensioner, Fifth Ward, $400 per annum.

G. W. Ellender, 400 Colvin street, Pensioner, Fifth Ward, $400 per annum.

W. M. Dunn, 1408 N. Central avenue, Pensioner, Fifth Ward, $400 per annum.

H. E. Curry, 910 Aisquith street, Pensioner, Eighth Ward, $400 per annum.

J. J. McGraw, 1446 Aisquith street, Pensioner, Eighth Ward, $400 per annum.

J. T. Elliott, 265 Chestnut avenue (Hampden), Pensioner, Twenty-second Ward, $400 per annum.

O. D. Burgess, 1113 Mulberry street, Pensioner, Fourteenth Ward, $400 per annum.

J. H. Gildea, 1017 Hopkins avenue, Pensioner, Fourteenth Ward, $400 per annum.

W. R. LaShom, 1423 Winchester street, Pensioner, Twentieth Ward, $400 per annum.

L. Pistel, 537 W. Baltimore street, Pensioner, Thirteenth Ward, $400 per annum.

R. M. Brown, 664 W. Lexington street, Pensioner, Tenth Ward, $400 per annum.

J. W. Blake, 212 N. Paca street, Pensioner, Tenth Ward, $400 per annum.

J. H. Hayward, 631 W. Fayette street, Pensioner, Thirteenth Ward, $400 per annum.

Jacob Hindes, 840 W. Lombard street, Pensioner, Thirteenth Ward, $400 per annum.

T. S. Rodenhi, 503 S. Howard street, Pensioner, Fifteenth Ward, $400 per annum.

Chas. Romoser, Sr., 608 S. Sharp street, Pensioner, Fifteenth Ward, $400 per annum.

W. R. Ward, 124 S. Calhoun street, Pensioner, Fourteenth Ward, $400 per annum.

T. H. Humphrey, 1164 N. Carey street, Pensioner, Twentieth Ward, $400 per annum.

B. T. Witts, 44 Poultney street, Pensioner, Fifteenth Ward, $400 per annum.

## WASHWOMEN.

Mary J. Hill, 1903 S. Wolfe street, Washwoman, Second Ward, $16 per month.

Mary Flaherty, 2139 Fairmount avenue, Washwoman, Sixth Ward, $16 per month.

Kate Creamer, 661 Sterling street, Washwoman, Fifth Ward, $16 per month.

Eliza Cousins, 625 N. Wolfe street, Washwoman, Sixth Ward, $16 per month.

Kate Van Rossum, 1748 E. North avenue, Washwoman, Twenty-second Ward, $14 per month.

Susan Clark, 1110 E. Ashland avenue, Washwoman, Fifth Ward, $8 per month.

Mary Smith, 1321 W. Lombard street, Washwoman, Fourteenth Ward, $16 per month.

Martha Paca, 617 Frederick avenue, Washwoman, Twenty-first Ward, $16 per month.

Theresa Bowers, 931 Saratoga street, Washwoman, Thirteenth Ward, $16 per month.

Eva Wagner, 311 N. Pearl street, Washwoman, Tenth Ward, $16 per month.

Adeline Acomb, 616 W. Baltimore street, Washwoman, Thirteenth Ward, $8 per month.

Annie E. Dumphy, 313 N. Pearl street, Washwoman, Tenth Ward, $16 per month.

Eliza Harris, 1015 W. Lombard street, Washwoman, Fourteenth Ward, $16 per month.

Sophia Seidling, 923 Bevan street, Washwoman, Sixteenth Ward, $16 per month.

Cath. Schlisoe, 209 Washington street "Annex," Washwoman, Twenty-second Ward, $2 per month.

Amelia Mullen, 4 Belair avenue, Washwoman, Twenty-second Ward, $2 per month.

Martha Taylor, 3108 York road, Washwoman, Twenty-second Ward, $2 per month.

Lew Van Horn, 2513 Mary street, Washwoman, Twenty-first Ward, $2 per month.

Annie Harrison, 1613 Gilmor street, Washwoman, Twentieth Ward, $10 per month.

Mary Glover, 400 Fifth avenue (Hampden), Washwoman, Twenty-second Ward, $10 per month.

Minnie Wigenfes, 924 Boyd street, Washwoman, Thirteenth Ward, $2 per month.

Mary Grim, 1939 Hollins street, Washwoman, Eighteenth Ward, $8 per month.

## MARKETS.

(Code of 1893, Art. 35, Sec. 64.)

Chas. Klinejohn, 520 Aisquith street, Belair Market, Clerk, Fifth Ward, $700 per annum.

Matthew Comegys, 616 Sterling street, Belair Market, Cleaner, Fifth Ward, $480 per annum.

James Thayer, 317 E. Lafayette avenue, Centre Market, Clerk, Eighth Ward, $450 per annum.

Chas. C. Sanner, 1837 Jefferson street, Centre Market, Assistant Clerk, Sixth Ward, $350 per annum.

Samuel B. Chaffinch, 1431 Orleans street, Centre Market, Cleaner, Sixth Ward, $600 per annum.

Calvert Kirby, 3031 Hudson street, Canton Market, Clerk, First Ward, $400 per annum.

Daniel Cadden, 939 Chesapeake street, Canton Market, Cleaner, First Ward, $168 per annum.

P. J. Campbell, 1738 Eastern avenue, Fell's Point Market, Clerk, Second Ward, $450 per annum.

Geo. Huber, 2732 O'Donnell street, Fell's Point Market, Cleaner, First Ward, $480 per annum.

Alonzo Jones, 619 Columbia avenue, Hanover Market, Clerk, Sixteenth Ward, $450 per annum.

Louis Jones, 804 Woodward street, Hanover, Cleaner, Eighteenth Ward, $400 per annum.

Thos. J. Robosson, 1212 W. Lombard street, Hollins Market, Clerk, Fourteenth Ward, $500 per annum.

George Leidner, 23 S. Carrollton avenue, Hollins Market, Cleaner, Fourteenth Ward, $300 per annum.

Chas. W. Greshoff, 647 W. Mulberry street, Lexington Market, Clerk, Tenth Ward, $450 per annum.

Casper W. Erek, 918 W. Franklin street, Lexington Market, Assistant Clerk, Tenth Ward, $350 per annum.

Wm. H. Kirby, 106 Diamond street, Lexington Market, Cleaner, Tenth Ward, $600 per annum.

Philip Engle, 1510 Retreat street, Lafayette Market, Clerk, Twenty-first Ward, $450 per annum.

Conrad Dorvin, 1809 Little Walsh street, Lafayette Market, Cleaner, Twentieth Ward, $240 per annum.

Henry Ahrens, 629 N. Castle street, Northeast Market, Clerk, Sixth Ward, $400 per annum.

John A. Deale, 1915 Ashland avenue, Northeast Market, Cleaner, Sixth Ward, $300 per annum.

John B. Zink, 938 N. Eutaw street, Richmond Market, Clerk, Eleventh Ward, $450 per annum.

George Smalley, 853 Garden street, Richmond Market, Cleaner, Eleventh Ward, $360 per annum.

Leonard G. Wicklein, 1716 Light street, Cross Street Market, Clerk, Seventeenth Ward, $800 per annum.

John Lowery, 44 Cross street, Cross Street Market, Cleaner, Fifteenth Ward, $125 per annum.

George Nash, 1630 Elizabeth's lane, Cross Street Market, Cleaner, Seventeenth Ward, $125 per annum.

Edward F. Sowers, 518 West street, Dog Pound Keeper, Eighteenth Ward, $600 per annum. (Code of 1893, page 768.)

Benjamin R. Elliott, 2437 Eastern avenue, Broadway Hall Keeper, First Ward, $400 per annum. (Code of 1893, page 807.)

INSPECTOR OF BUILDINGS.

Everett J. Dowell, 1423 Edmondson avenue, Inspector of Buildings, Nineteenth Ward, $3000 per annum. (Code of 1893, Art. 7, Sec. 1.)

Alex. M. Montell, 833 N. Eutaw street, Clerk, Eleventh Ward, $1000 per annum. (Code of 1893, Art. 7, Sec. 1.)

(Ordinance No. 53, 1895-96.)

George R. Bullen, 1210 W. Franklin street, Assistant Inspector, Nineteenth Ward, $1500 per annum.

Francis H. Waters, 2207 Bolton street, Assistant Inspector, Twenty-first Ward, $1200 per annum.

M. O. Travers, 205 N. Fulton avenue, Assistant Inspector, Nineteenth Ward, $1200 per annum.

Solomon Coburn, 2224 McCulloh street, Assistant Inspector, Twelfth Ward, $1200 per annum.

R. H. Beauchamp, 109 E. Montgomery street, Fifteenth Ward, $1200 per annum.

John P. Teal, 1831 Jefferson street, Assistant Inspector, Sixth Ward, $1200 per annum.

John H. Horner, 1117 Granby street, Assistant Inspector, Fourth Ward, $1200 per annum.

Thomas L. Parks, 1311 Light street, Assistant Inspector, Seventeenth Ward, $1200 per annum.

J. Frank Crowther, Woodberry avenue, Assistant Inspector, Twenty-first Ward, $1200 per annum.

N. B. Shorey, 305 Robert street, Inspector of Furnaces, Twelfth Ward, $1200 per annum. (Ordinance No. 56, 1895-96.)

## INSPECTORS OF WEIGHTS AND MEASURES.

(Paid by fees. Code of 1893, Art. 28, Sec. 33.)

Wm. H. Ijams, 326 Falls road Northwestern District, Twenty-second Ward.

Jos. Devlin, 665 Columbia avenue, Southwestern District, Sixteenth Ward.

Wm. A. Torney, 135 E. Barre street, Southern District, Fifteenth Ward.

E. S. Snyder, 1323 W. North avenue, Northeastern District, Sixth Ward.

Wm. Weitzell, 504 S. Montford avenue, Southeastern District, First Ward.

## INSPECTOR OF LONG AND DRY MEASURES.

(Code of 1893, Art. 28, Sec. 33.)

Thos. J. Stirling, 1741 McCulloh street, Inspector.

## HARBOR BOARD.

(Ordinance No. 119, 1893-94.)

N. H. Hutton, 14 E. Biddle street, Engineer, Eighth Ward, $3600 per annum.

S. L. Richards, 3012 Evergreen Terrace, Clerk, Twenty-first Ward, $1200 per annum.

Thomas B. Lewis, 11 N. Ann street, Captain Iceboat Latrobe, Third Ward, $1500 per annum.

Richard A. Dunn, 2116 E. Lombard street, Captain Iceboat Annapolis, First Ward, $1500 per annum.

W. N. Fooks, 16 N. Chester street, Captain Tug Baltimore, Sixth Ward, $1020 per annum.

Thomas Thornton, 1421 E. North avenue, Engineer Iceboat Latrobe, Eighth Ward, $1200 per annum.

Isaac Robinson, 1256 Battery avenue, Mate Iceboat Latrobe, Seventeenth Ward, $720 per annum.

John Kelly, 1008 Riverside avenue, Deck-hand Iceboat Latrobe, Fifteenth Ward, $600 per annum.

Wm. A. Hinton, 302 S. Bond street, Watchman Iceboat Latrobe, Third Ward, $600 per annum.

———, Engineer Iceboat Annapolis, ———, $1200 per annum.

Frank Lambert, 2009 Ramsay street, Mate Iceboat Annapolis, Eighteenth Ward, $720 per annum.

Samuel D. Jenkins, 1428 N. Chester street, Deck-hand Iceboat Annapolis, Sixth Ward, $600 per annum.

Chas. Whitelock, 718 N. Broadway, Watchman, Iceboat Annapolis, Fifth Ward, $600 per annum.

Edward Akers, 915 Hanover street, Engineer Tug Baltimore, Fifteenth Ward, $960 per annum.

Edw. McCready, 2125 Fairmount avenue, Mate Tug Baltimore, Sixth Ward, $720 per annum.

H. W. D. Daneker, 13 E. Montgomery street, Fireman Tug Baltimore, Fifteenth Ward, $600 per annum.

Henry G. Mahr, 618 N. Eden street, Watchman Tug Baltimore, Fifth Ward, $600 per annum.

Lloyd A. Tydings, 921 William street, Leadsman Tug Baltimore, Fifteenth Ward, $900 per annum.

B. F. Heaps, 508 N. Broadway, Superintendent of Wharves, Sixth Ward, $900 per annum.

W. O. Rowe, 2238 Essex street, Superintendent Ash Scow, First Ward, $800 per annum.

John W. Byers, 2511 Eastern avenue, Fireman Annapolis, First Ward, $1.75 per day.

John C. Hilseberg, 637 S. Montford avenue, Fireman Latrobe, First Ward, $1.75 per day.

Daniel Williams, 1429 Covington street, Fireman Latrobe, Seventeenth Ward, $1.75 per day.
M. D. Burnett, 2114 Fairmount avenue, Deck-hand Baltimore, Sixth Ward, $720 per annum.

## BAY VIEW ASYLUM.

(Code of 1893, Secs. 43 and 45, Art. 4.)

Louis F. Zinkhan, 325 E. Lafayette avenue, Superintendent, Eighth Ward, $1600 per annum.
John E. Dorsey, 512 Franklin Terrace, Purveyor, Twenty-second Ward, $1500 per annum.
Lorenzo B. Gough, 1009 E. Preston street, Permit Clerk, Seventh Ward, $900 per annum.
James J. Farrell, 34 Cottage avenue, Chief Engineer, Twenty-second Ward, $1000 per annum.
Wm. H. Stevens, 1710 E. Chase street, Assistant Engineer, Seventh Ward, $900 per annum.
Thomas Connor, 917 Canton avenue, Messenger, First Ward, $660 per annum.
Charles Jones, 2824 Dillon street, Baker, First Ward, $700 per annum.
Wm. T. Reese, 1734 E. North avenue, Farmer, Twenty-second Ward, $600 per annum.
James V. Hunt, Lanvale and Calhoun, Supervisor Insane, Nineteenth Ward, $720 per annum.
Louis Winkler, Bay View Asylum, Assistant Supervisor Insane, $300 per annum.
A. W. McGlannan, 2005 Madison avenue, Apothecary, Twelfth Ward, $600 per annum.

(Code of 1893, Secs. 37 and 38, Art. 4.)

Lee Cohen, Bay View Asylum, Resident Physician in Chief, $600 per annum.
Hubert C. Knapp, Bay View Asylum, Physician, $600 per annum.

W. J. R. McFarland, Bay View Asylum, Assistant Physician, $100 per annum.

Philip Harvey, Merryman's lane and Hickory avenue, Turnkey, Twenty-second Ward, $480 per annum.

Oliver Cannoles, 2011 Pulaski street, Gatekeeper, Twenty-first Ward, $180 per annum.

Nannie E. Worsley, Bay View Asylum, Matron, $600 per annum.

Minnie Hillegeist, 919 Madison avenue, Matron Centre House, Eleventh Ward, $240 per annum.

E. Duvall (Mrs.), 2020 Linden avenue, Assistant Clerk, Twenty-first Ward, $600 per annum.

Mary Mercer, 1802 W. Lombard street, Charge Sewing Room, Fourteenth Ward, $360 per annum.

Logan Carey, University Hospital, Charge Laundry, Thirtenth Ward, $240 per annum.

Athalia Lord, Bay View Asylum, Nurse, $480 per annum.

Kate H. Galloway, 1225 Light street, Assistant Nurse, Seventeenth Ward, $200 per annum.

Claribel Baker, 1230 McCulloh street, Assistant Nurse, Twelfth Ward, $200 per annum.

Ella Barrett, 1122 Madison street, Assistant Nurse, Twelfth Ward, $200 per annum.

Sarah Hubbard, Bay View Asylum, Assistant Nurse, $200 per annum.

M. A. Seitz, Bay View Asylum, Assistant Nurse, $200 per annum.

C. L. Munds, Bay View Asylum, Assistant Nurse, $60 per annum.

Lizzie McDonald, Catonsville, Charge W. F. Rec. Ward, $170 per annum.

Annie E. Smith, 1523 E. Baltimore street, Charge Children's pav., Third Ward, $144 per annum.

E. S. Greenfeld, 428 E. Biddle street, Assistant Matron (Insane), Eighth Ward, $240 per annum.

M. E. Edum, 414 N. Greene street, Attendant Female Insane, Tenth Ward, $216 per annum.

Annie Donovan, 217 N. Broadway, Attendant Female Insane, Sixth Ward, $180 per annum.

(Code of 1893, Art. 4, Secs. 37 and 38.)

Dollie Weems, 1818 W. Franklin street, Attendant Female Insane, Nineteenth Ward, $180 per annum.

Lizzie Parsons, Bay View Asylum, Attendant Female Insane, $170 per annum.

Annie Durkin, 132 S. Ann street, Attendant Female Insane, Third Ward, $144 per annum.

Maggie Snee, 132 S. Ann street, Attendant Female Insane, Third Ward, $144 per annum.

Sallie Gorrie, 807 N. Mount street, Attendant Female Insane, Nineteenth Ward, $144 per annum.

Ellen Reaney, Broadway and Ashland avenue, Attendant Female Insane, Seventh Ward, $144 per annum.

Annie E. Barton, Orangeville, Md., Attendant Female Insane, $144 per annum.

Fannie Fallon, 1726 W. Lexington street, Attendant Female Insane, Nineteenth Ward, $144 per annum.

J. A. McLaughlin, Bay View Asylum, Clerk Insane, $120 per annum.

Patrick Murphy, Bay View Asylum, Attendant Insane, $120 per annum.

James Davis, Bay View Asylum, Attendant Insane, $120 per annum.

Philip Livingstone, Bay View Asylum, Attendant Insane, $60 per annum.

John Mulholland, Bay View Asylum, Cook, Center House, $300 per annum.

A number of inmates are employed and receive from $1 to $15 per month.

## HEALTH DEPARTMENT.

(Code of 1893, Art. 23, Sec. 1.)

C. Hampson Jones, M.D., 211 W. Franklin street, Commissioner, Eleventh Ward, $3000 per annum.

J. Tyler Smith, M.D., 600 Columbia avenue, Assistant Commissioner, Sixteenth Ward, $2000 per annum.

(Code of 1893, Art. 23, Secs. 126 and 130.)

A. K. Hadel, M.D., 1628 John street, Secretary, Twelfth Ward, $2000 per annum.

Robert G. Blaine, 2308 McCulloh street, Assistant Secretary, Twenty-first Ward, $1000 per annum.

Thos. E. Williams, 647 W. Mulberry street, Permit Clerk, Tenth Ward, $1000 per annum.

Wm. C. Rath, 605 Ensor street, Registrar's Clerk, Fifth Ward, $1000 per annum.

E. Y. Sorden, 708 W. Mulberry street, Nuisance Clerk, Tenth Ward, $1000 per annum.

H. F. Prichard, 1010 S. Chesapeake street, Recorder of Births, First Ward, $1000 per annum.

J. F. Hempel, M.D., 1103 Valley street, Sanitary Inspector, Seventh Ward, $1000 per annum.

C. Marion Dodson, M.D., 1408 Madison avenue, Sanitary Inspector, Twelfth Ward, $1000 per annum.

J. J. Caldwell, M.D., 808 N. Fulton avenue, Sanitary Inspector, Nineteenth Ward, $1000 per annum.

H. H. Hayden, M.D., 1425 Light street, Sanitary Inspector, Seventeenth Ward, $1000 per annum.

T. T. Dawson, 1627 E. Baltimore street, Sanitary Inspector, Third Ward, $1000 per annum.

S. T. Mowers, M.D., 721 W. Lexington street, Sanitary Inspector, Seventeenth Ward, $1000 per annum.

John C. Eichner, M. D., 410 N. Stricker street, Sanitary Inspector, Nineteenth Ward, $1000 per annum.

N. G. Keirle, M.D., 1419 W. Lexington street, Medical Examiner, Nineteenth Ward, $1000 per annum.

A. Cotton, M.D., City Hospital, Assistant Medical Examiner, Ninth Ward, $500 per annum.

E. M. Stevenson, 1031 Edmondson avenue, Superintendent Public Cemeteries, Fourteenth Ward, $1500 per annum.

John Decker, 3 Wellesley avenue, Driver of Funeral Wagon, Twenty-first Ward, $780 per annum.

Henry C. Branning, 851 W. Fayette street, Driver of Funeral Wagon, Thirteenth Ward, $780 per annum.

G. W. Parlett, 1338 N. Bond street, Disinfector, Seventh Ward, $800 per annum.

J. R. Wetherill, 433 E. Lafayette avenue, Assistant Registrar's Clerk, Eighth Ward, $900 per annum.

(Code of 1893, Art. 23, Sec. 19.)

Jos. C. Mitchell, 913 N. Broadway, Inspector of Plumbing, Seventh Ward, $1200 per annum.

Geo. W. Pilson, 1650 Wilkens avenue, Inspector of Drains, Eighteenth Ward, $1200 per annum.

Wm. H. Hackman, 308 S. Medeira, Superintendent of Morgue, First Ward, $900 per annum.

A. McKnight, 8 W. Montgomery street, Disinfector, Fifteenth Ward, $800 per annum.

James T. Ballard, 1428 Ensor street, Detective, Eighth Ward, $800 per annum.

Chas. Steinwedel, 903 Carroll street, Watchman of Dumps, Twenty-first Ward, $780 per annum.

Samuel H. Oler, 1235 Guilford avenue, Maker of Disinfectant, Twelfth Ward, $520 per annum.

Al. E. Mushake, 313 W. Pratt street, Messenger, Sixteenth Ward, $600 per annum.

Ed. H. Sutton, 812 Whatcoat street, Assistant at Morgue, Twentieth Ward, $600 per annum.

G. W. Lehmann, Prof., 1721 Park Place, Chemist, Twelfth Ward, $1500 per annum.

Wm. R. Stokes, 813 N. Eutaw street, Bacteriologist, Eleventh Ward, $1500 per annum.

Thos. J. Boram, 1002 McDonough street, Inspector of Food, Seventh Ward, $1000 per annum.

Thos. E. Carmichael, 2638 Pennsylvania avenue, Inspector of Food, Twenty-first Ward, $1000 per annum.

Frank L. Tuttle, 437 E. Lafayette avenue, Inspector of Food, Eighth Ward, $1000 per annum.

(Code of 1893, Art. 23, Sec. 23.)

Lewis F. Frey, M.D., 2470 Druid Hill avenue, Sanitary Inspector, Twenty-first Ward, $800 per annum.

Louis H. Gundry, M.D., 917 Frederick avenue extended, Sanitary Inspector, Twenty-first Ward, $800 per annum.

W. G. Townsend, M.D., 10 North avenue, Sanitary Inspector, Twenty-second Ward, $800 per annum.

Geo. H. Everhart, M.D., 100 W. Twenty-fifth street, Sanitary Inspector, Twenty-second Ward, $800 per annum.

Benj. A. Klug, Fairfield P. O., Keeper of Isolation Hospital, $720 per annum.

Fred. E. Greineisen, 2001 W. Pratt street, Inspector of Bakeries, Eighteenth Ward, $1200 per annum. (Ordinance No. 104, 1895-96.)

*Vaccine Physicians.*

(Code of 1893, Art. 23, Secs. 126 and 130.)

Chas. S. Neer, M.D., 619 S. Patterson Park avenue, Vaccine Physician, First Ward, $300 per annum.

Gustave Goldman, M.D., 2005 Eastern avenue, Vaccine Physician, Second Ward, $400 per annum.

C. F. Blake, M.D., 1503 E. Baltimore street, Vaccine Physician, Third Ward, $300 per annum.

Jacob H. Mitnick, M.D., 309 N. Exeter street, Vaccine Physician, Fourth Ward, $300 per annum.

H. M. Cohen, M.D., 518 Aisquith street, Vaccine Physician, Fifth Ward, $300 per annum.

Samuel T. Roeder, M.D., 1904 E. Fayette street, Vaccine Physician, Sixth Ward, $300 per annum.

Geo. W. Mitchell, M.D., 913 N. Broadway, Vaccine Physician, Seventh Ward, $400 per annum.

Henry F. Cassiday, M.D., 702 Greenmount avenue, Vaccine Physician, Eighth Ward, $300 per annum.

E. V. Milholland, M.D., 115 W. Franklin street, Vaccine Physician, Ninth Ward, $400 per annum.

Robert J. Murray, M.D., 302 N. Fremont avenue, Vaccine Physician, Tenth Ward, $400 per annum.

E. Lambert Yourex, M.D., 1138 Druid Hill avenue, Vaccine Physician, Eleventh Ward, $400 per annum.

E. C. Bubert, M.D., 2025 Druid Hill avenue, Vaccine Physician, Twelfth Ward, $300 per annum.

Chas. W. McElfresh, M.D., 834 W. Lombard street, Vaccine Physician, Thirtenth Ward, $300 per annum.

John G. Jeffers, M.D., 1143 W. Franklin street, Vaccine Physician, Fourteenth Ward, $400 per annum.

Chas. F. Pfeffer, M.D., 48 E. Montgomery street, Vaccine Physician, Fifteenth Ward, $300 per annum.

C. Lunsford Nuchols, M.D., 643 S. Paca street, Vaccine Physician, Sixteenth Ward, $300 per annum.

C. P. Strauss, M.D., 1606 Light street, Vaccine Physician, Seventeenth Ward, $400 per annum.

Harry C. Knipp, M.D., 523 Scott street, Vaccine Physician, Eighteenth Ward, $300 per annum.

Chas. C. Richardson, M.D., 1616 Edmondson avenue, Vaccine Physician, Nineteenth Ward, $300 per annum.

Geo. C. Shannon, M.D., 1442 Presstman street, Vaccine Physician, Twentieth Ward, $300 per annum.

J. Burch Joyce, M.D., 2526 W. Baltimore street, Vaccine Physician, Twenty-first Ward, $300 per annum.

Walter S. Carswell, M.D., Northeast corner Charles and Huntingdon avenue, Twenty-second Ward, $300 per annum.

## LAW DEPARTMENT.

John E. Semmes, 10 E. Eager street, City Solicitor, Eighth Ward, $4000 per annum. (Code of 1893, Art. 13, Sec. 8.)

John V. L. Findlay, 927 St. Paul street, City Counselor, Ninth Ward, $2500 per annum. (Code of 1893, Art. 13, Sec. 8.)

Frederick W. Story, 2324 N. Calvert street, Examiner of Titles, Twenty-second Ward, $3000 per annum. (Code of 1893, Art. 14, Sec. 19.)

Leon E. Greenbaum, 1614 Eutaw Place, City Attorney, Twelfth Ward, $2000 per annum. (Code of 1893, Art. 13, Sec. 21.)

## SUPERINTENDENT OF PUBLIC BUILDINGS.

Col. Theo. F. Lang, 2206 Barclay street, Superintendent, Twenty-second Ward, $1500 per annum. (Ordinance No. 9, 1895-96.)

(Code of 1893, page 530.)

Jerome Airey, 1206 N. Stricker street, Watchman, Nineteenth Ward, $1000 per annum.

Wm. Daywalt, 701 Blucher avenue, Watchman, Twenty-second Ward, $1000 per annum.

Geo. C. Pfeltz, 542 N. Central avenue, Watchman, Fifth Ward, $1000 per annum.

Robert M. Craig, 1716 Mosher street, Watchman, Nineteenth Ward, $1000 per annum.

W. S. Wood, 2114 Bank street, Fireman, First Ward, $900 per annum.

Thos. Kershaw, 755 Third avenue, Fireman, Twenty-first Ward, $900 per annum.

Robt. H. Harris, 314 S. Caroline street, Elevator Conductor, Third Ward, $900 per annum.

(Ordinance No. 9, 1895-96.)

Nelson Burgess, 515 Aisquith street, Laborer, Ninth Ward, $480 per annum.

Mollie Ruff, 405 Roland avenue, Superintendent Charwomen, Twenty-second Ward, $480 per annum.

Mary Rigney, 933 E. Madison street, Charwoman, Eighth Ward, $300 per annum.

Eliza Cunningham, 707 N. Eden street, Charwoman, Fifth Ward, $300 per annum.

Frances Furst, 124 Regester street, Charwoman, Fifth Ward, $300 per annum.

Wilhelmene Reilly, 758 Mulberry street, Charwoman, Tenth Ward, $300 per annum.

Ellen Kelly, 442 N. Patterson Park avenue, Charwoman, Sixth Ward, $300 per annum.

Ellen Haney, 1422 N. Chester street, Charwoman, Sixth Ward, $300 per annum.

Sarah Hudgins, 434 E. Biddle street, Charwoman, Fifth Ward, $300 per annum.

Mollie Maffitt, 639 W. Barre street, Charwoman, Sixteenth Ward, $300 per annum.

Katie Mason, 222 S. Chapel street, Charwoman, First Ward, $300 per annum.

Bridget Ghagan, 809 E. Chase street, Charwoman, Eighth Ward, $300 per annum.

Mary Keys, 1011 Patuxent street, Charwoman, First Ward, $300 per annum.

Katie Holste, 259 S. Bond street, Charwoman, Third Ward, $300 per annum.

Miranda Chandler, 552 N. Gay street, Charwoman, Fifth Ward, $300 per annum.

Elizabeth Lowry, 905 N. Bond street, Charwoman, Seventh Ward, $300 per annum.

Jennie Shriver, 2414 Mt. Vernon avenue, Charwoman, Twenty-second Ward, $300 per annum.

Katie Rouse, 1229 E. Eager street, Charwoman, Seventh Ward, $300 per annum.

Mary Weipert, 663 W. Mulberry street, Charwoman, Tenth Ward, $300 per annum.

Jennie Sank, 1140 W. Pratt street, Charwoman, Fourteenth Ward, $300 per annum.

Sarah Reddish, 604 E. Fort avenue, Charwoman, Seventeenth Ward, $300 per annum.

Bertha Hannagan, 1806 Bank street, Charwoman, Second Ward, $300 per annum.

Mary Twist, 1020 Granby street, Charwoman, Fourth Ward, $300 per annum.

Lizzie Smith, 433 Pulaski street, Charwoman, Eighteenth Ward, $300 per annum.

Lizzie Waters, 14 Marriott street, Charwoman, Twenty-first Ward, $300 per annum.

Sarah A. Mettee, 1008 Greenmount avenue, Charwoman, Eighth Ward, $300 per annum.

Ann C. Cromwell, 1643 Covington street, Charwoman, Seventeenth Ward, $300 per annum.

Kate Massey, 1025 N. Bond street, Charwoman, Seventh Ward, $300 per annum.

Walter C. Lloyd, 74 S. Carrollton avenue, ———, Fourteenth Ward, $1000 per annum.

John Weilage, 152 N. Gay street, Janitor, Ninth Ward, $540 per annum.

Clementena Anderson, 247 S. Central avenue, Charwoman, Third Ward, $300 per annum.

Maggie Yoe, 119 S. High street, Charwoman, Eleventh Ward, $300 per annum.

Winderfuth Carney, 16 S. Poppleton street, Charwoman, Thirteenth Ward, $300 per annum.

Jos. H. Lamb, 24 Valley street, Fireman, Twenty-second Ward, $600 per annum.

Geo. W. Manley, 2040 Druid Hill avenue, Fireman, Twelfth Ward, $600 per annum.

F. W. Schneerman, 707 S. Montford avenue, Janitor, First Ward, $600 per annum.

John S. Devilbliss, 1108 N. Mount street, Janitor, Nineteenth Ward, $600 per annum.

Mary Malone, 200 Saratoga street, Janitress, Tenth Ward, $300 per annum.

Jane Smith, 730 N. Spring street, Charwoman, Fifth Ward, $300 per annum.

Annie Earl, 1514 McElderry street, Charwoman, Sixth Ward, $300 per annum.

Amy Young, 526 Tyson street, Charwoman, Eleventh Ward, $300 per annum.

Mary Jones, 256 S. Bethel street, Charwoman, Third Ward, $300 per annum.

Nancy Wilson, 661 Pierce street, Charwoman, Tenth Ward, $300 per annum.

Rosa Linberry, 590 W. Preston street, Charwoman, Eleventh Ward, $300 per annum.

## HARBOR MASTERS.

(Paid in fees. Code of 1893, Art. 22, Sec. 43.)

Chas. J. M. Taylor, 511 S. Ann street, First District, Second Ward.

August Langeluttig, Jr., 736 Light street, Second District, Fifteenth Ward.

Emanuel H. Jacobi, 708 N. Broadway, Third District, Fifth Ward.

F. Carter, 437½ Druid Hill avenue, Fourth District, Eleventh Ward.

Charles Bangs, 1411 Bolton street, Fifth District, Twelfth Ward.

B. F. Marr, 2 S. Eighth street, west, Sixth District.

P. B. Wilson, 620 W. North avenue, Inspector of Gas and Illuminating Oils, Twelfth Ward, $1600 per annum. (Code of 1893, page 738.)

Lewis V. Bonn, 1520 N. Washington street, Keeper of Drawbridge, Seventh Ward, $750 per annum. (Ordinances 1893-94, page 145.)

Chas H. Reifner, 1739 Bank street, Assistant Keeper of Drawbridge, Second Ward, $600 per annum. (Ordinances 1893-94, page 145.)

C. A. Helmling, 769 St. Peter street, Keeper of Harman's Bridge, Eighteenth Ward, $750 per annum. (Ordinances 1893-94, page 145.)

Fredk. Timmerman, 619 E. Lombard street, Keeper of Institute Market, Ninth Ward, $500 per annum. (Code of 1893, page 807.)

## TOPOGRAPHICAL SURVEY.

Geo. W. McCreary, 1019 Edmondson avenue, in charge of office, Fourteenth Ward, $1500 per annum. (Ordinance No. 98, 1892-93.)

Jos. W. Shirley, Park Heights avenue, Assistant Engineer, Twenty-first Ward, $900 per annum. (Ordinance No. 98, 1892-93.)

QUARANTINE.

Dr. John Ruhrah, 953 Madison avenue, Physician, Eleventh Ward, $3000 per annum. (Code of 1893, Art. 23, Sec. 152.)

(Code of 1893, Art. 23, Sec. 153.)

Dr. Melvin Rosenthal, 1811 Linden avenue, Assistant Physician, Twelfth Ward, $5 per day.

Wm. Harrington, 123 E. Montgomery street, Captain Hygeia, Fifteenth Ward, $65 per month.

James Adams, 12 S. Register street, Assistant Captain Hygeia, Third Ward, $60 per month.

Jos. Jory, 1269 Battery avenue, Engineer, Seventeenth Ward, $60 per month.

John Hilseberg, 637 Montford avenue, Assistant Engineer, First Ward, $60 per month.

Frank Gadd, 1715 Hanover street, Fireman, Seventeenth Ward, $60 per month.

Alex. Shaney, 1512 N. Dallas street, Deck-hand, Seventh Ward, $60 per month.

Henry Loos, 1644 Holbrook street, Messenger, Eighth Ward, $60 per month.

Frank Hammill, City Hospital, Nurse and Porter, Ninth Ward, $60 per month.

Clinton Ballan, Anne Arundel County, Gardener, County, $60 per month.

Lizzie Martin, 404 S. Chester street, Cook, First Ward, $20 per month.

## SQUARES.

### *Ashland Square.*

James Shannon, 1219 E. Monument street, Keeper, Fifth Ward, $50 per annum.

### *Harlem Park.*

(Ordinance No. 100, 1895-96.)

Wm. H. Witte, 1810 White street, Keeper, Nineteenth Ward, $87 per month.

John McKinstry, 1323 Lanvale street, Laborer, Twentieth Ward, $1.50 per day.

Edgar F. Hullert, 663 W. Mulberry street, Laborer, Tenth Ward, $1.50 per day.

Ernest L. Kinsey, 3 N. Calhoun street, Laborer, Nineteenth Ward, $1.50 per day.

John Whiteside, 946 Saratoga street, Laborer, Tenth Ward, $1.50 per day.

### *Jackson Square.*

Herman Kumlehm, 1815 E. Fayette street, Keeper, Third Ward, $50 per month. (Ordinance No. 100, 1895-96.)

### *Lafayette Square.*

Henry Mannion, 34 W. Cross street, Keeper, Fifteenth Ward, $60 per month. (Ordinance No. 100, 1895-1896.)

### *Perkins Spring Square.*

John Geary, 1208 W. Franklin street, Keeper, Nineteenth Ward, $55 per month. (Ordinance No. 100, 1895-96.)

*Taney Place Square.*

August Bechtold, 566 Baker street, Keeper, Twelfth Ward, $25 per month. (Ordinance No. 100, 1895-1896.)

*Broadway Squares, First Division.*

Geo. Gernhart, 1605 Miller street, Keeper, Sixth Ward, $55 per month. (Ordinance No. 100, 1895-96.)

Geo. H. Schmuff, 237 Milton avenue, Helper, Sixth Ward, $12 per week. (Ordinance No. 100, 1895-96.)

*Broadway Squares, Second Division.*

Wm. Seymour, 1123 N. Gay street, Keeper, Seventh Ward, $55 per month. (Ordinance No. 100, 1895-1896.)

*Broadway Squares, Third Division.*

(Ordinance No. 100, 1895-96.)

Stephen Allwell, 1630 E. Preston street, Keeper, Seventh Ward, $2 per day.

Samuel Hall, 1736 Federal street, Laborer, Seventh Ward, $10 per week.

Frank Higdon, 1232 N. Gay street, Laborer, Seventh Ward, $10 per week.

*Fulton Avenue Squares.*

(Ordinance No. 100, 1895-96.)

S. M. Kemp, 813 N. Mount street, Keeper, Nineteenth Ward, $50 per month.

John Warner, 1532 Baker street, Laborer, Twentieth Ward, $12 per week.

Jas. H. Collier, 1726 N. Fulton avenue, Twentieth Ward, $1.50 per day.

*Eastern Fountain.*

Wm. J. Glass, 313 S. Eden street, Keeper, Third Ward, $50 per month. (Ordinance No. 100, 1895-96.)

*Park Place Squares.*

Wm. Norris, 118 Mosher street, Keeper, Twelfth Ward, $25 per month. (Ordinance No. 100, 1895-96.)

*Madison Square.*

(Ordinance No. 100, 1895-96.)

David G. Young, 1723 E. Biddle street, Keeper, Seventh Ward, $50 per month.

John T. Amos, 1721 E. Eager street, Laborer, Seventh Ward, $10 per week.

Thos. W. Burton, 1511 E. Preston street, Laborer, Seventh Ward, $10 per week.

*Mount Royal Avenue Squares.*

Peter Needham, 1310 John street, Keeper, Twelfth Ward, $40 per month. (Ordinance No. 100, 1895-1896.)

Chas. J. Eyerly, 12 W. McComas street, Laborer, Seventeenth Ward, $1.50 per day. (Ordinance No. 100, 1895-96.)

*Wilkins Avenue Squares.*

(Ordinance No. 100, 1895-96.)

Conrad Braun, 2027 McHenry street, Keeper, Eighteenth Ward, $50 per month.

Geo. W. Hammond, 1903 Wilkins avenue, Laborer, Eighteenth Ward, $10 per week.

Robert Geigle, 330 S. Gilmor street, Laborer, Twentieth Ward, $10 per week.

*Mount Vernon Squares.*

(Ordinance No. 100, 1895-96.)

Sebastian Ettlinger, 837 N. Front street, Keeper, Fifth Ward, $50 per month.

E. J. Willis, 816 Harford avenue, Laborer, Eighth Ward, $1.50 per day.

August Camilla, 1417 E. Preston street, Laborer, Seventh Ward, $8 per month.

*Franklin Square.*

John Weber, 14 S. Gilmor street, Keeper, Nineteenth Ward, $50 per month. (Ordinance No. 100, 1895-1896.)

*Union Square.*

Joseph E. Taylor, 118 S. Fulton avenue, Keeper, Fourteenth Ward, $50 per month. (Ordinance No. 100, 1895-96.)

*Eutaw Squares, First Division.*

Daniel Leibert, Keeper, $50 per month. (Ordinance No. 100, 1895-96.)

*Eutaw Squares, Second Division.*

Jeremiah Murphy, 558 Wilson street, Keeper, Twelfth Ward, $50 per month. (Ordinance No. 100, 1895-1896.)

## SCHOOL BOARD OFFICE.

Chas. F. Bender, 710 West North avenue, Secretary, Twenty-first ward, $2,000.

Henry A. Wise, 409 St. Paul street, Superintendent Public Instruction, Ninth ward, $2,500.

John E. McCahan, 1719 Hollins street, Assistant Superintendent Public Instruction, Fourteenth ward, $2,000.

Wm. H. Schilling, 2127 Jefferson street, Assistant Secretary, Sixth ward, $1,500.

Jas. F. Morgan, 1300 South Charles street, Superintendent of Supplies, Seventeenth ward, $1,800.

Geo. W. McGill, 16 East Henrietta street, Librarian, Fifteenth ward, $1,200.

Elwood A. Green, 1429 John street, Clerk to Superintendent and Secretary, Twelfth ward, $1,000.

S. L. Auerbach, 710 West Fayette street, Clerk to Secretary, Thirteenth ward, $1,000.

J. Harry Deems, 1116 Mosher street, Superintendent of Music, Twentieth ward, $1,500.

John G. Wehage, 1279 Battery avenue, Superintendent of Music, Seventeenth ward, $1,500.

Mary C. Herbert, 150 West Lanvale street, Public School Librarian, Tenth ward, $900.

Geo. W. Gibson, 2233 Gough street, Janitor of Warehouse, First ward, $520.

## SEWING TEACHERS.

Olivia F. Keach. 1830 Madison avenue, Supervisor, Twelfth ward, $720.

Annie B. Davidson, 114 West Mulberry street, teacher, Ninth ward, $500.

A. Irene Dysart, 323 North Gilmor street, teacher, Nineteenth ward, $500.

Agnes H. Muller, 1218 Bolton street, teacher, Twelfth ward, $500.

Florence A. Parsons, 1715 North Broadway, teacher, Seventh ward, $500.

Mary S. Zoller, 608 North Carrollton avenue, teacher, Nineteenth ward, $500.
Maud S. Ross, 309 West Lanvale street, teacher, Twelfth ward, $500.
Ellen Barker (in Paris temporarily, substitute, Miss Rebecca Perrin, 2013 Maryland avenue), teacher, $500.
Elizabeth A. Keyworth, 128 Franklin street, teacher, Ninth ward, $500.
Lucy A. Ford, 1536 North Gilmor street, teacher, Twentieth ward, $500.
Camilla H. Herbert, 150 West Lanvale street, teacher, Twelfth ward, $500.
Bessie E. Meushaw, 18 East Lanvale street, teacher, Eighth ward, $500.
Carrie L. Wiechert, 1120 North Fulton avenue, teacher, Nineteenth ward, $500.
Edith M. Dawes, 240 Wilson street, teacher, Twelfth ward, $500.
Laura L. Tubman, 511 North Schroeder street, teacher, Tenth ward, $500.
May Montell, 1533 John street, teacher, Twelfth ward, $500.
Francis H. Hollyday, 918 Arlington avenue, teacher, Twentieth ward, $500.
Laura V. Davis, 218 West Twenty-fifth street, Directress, Twenty-second ward, $600.
Mrs. Nannie B. Hensley, 2413 Maryland avenue, teacher, Twenty-second ward, $500.
Mrs. Annie L. Clark, 19 West Hill street, teacher, Fifteenth ward, $500.
Mrs. Agnes O'Malley, 1312 Aisquith street, teacher, Seventh ward, $500.
Mrs. May C. Donovan, 217 North Broadway, teacher, Sixth ward, $500.
Mrs. Annie E. Crowe, 1635 North Caroline street, teacher, Seventh ward, $500.
Mrs. Mary A. Mathews, 806 Dolphin street, teacher, Twentieth ward, $500.

Mrs. Fannie Hause, 230 Lafayette avenue, teacher, Twelfth ward, $500.
Mrs. Sadie S. McKeel, 930 North Carrollton avenue, teacher, Twentieth ward, $500.
Mrs. Elmira B. Crogan, 1705 Hollins street, teacher, Fourteenth ward, $500.
Ella Crawford, 1507 John street, teacher, Twelfth ward, $500.
Alice Reindollar, 1032 West Hopkins avenue, teacher, Fourteenth ward, $500.
Augusta L. Bayley, 924 West North avenue, teacher, Twenty-first ward, $500.
Mary A. MacNeal, 2032 East Pratt street, teacher, First ward, $500.
Mrs. Regina Hellman, 1840 West Saratoga street, teacher, Nineteenth ward, $500.
Ella L. Warden, 1411 John street, teacher, Twelfth ward, $500.
Annie E. Clarkson, 2025 Fairmount avenue, teacher, Sixth ward, $500.
Lillie J. Carle, 33 East Hill street, teacher, Fifteenth ward, $500.
Ella E. Sheets, 1706 East Eager street, teacher, Seventh ward, $500.
Hattie N. Hall, 368 North Gay street, teacher, Fourth ward, $500.
Eugenia B. Prettyman, 300 East North avenue, teacher, Twenty-second ward, $500.
Frances E. Lamb, 609 Lennox street, teacher, Twenty-first ward, $500.
Anna L. Baxter, 840 Harlem avenue, teacher, Twentieth ward, $500.
Myrtle E. Lorentz, 1705 Harlem avenue, teacher, Nineteenth ward, $500.
Mary O'Conor, 1040 Valley street, teacher, Eighth ward, $500.
Susan E. Sultzer, 415 E. Lafayette avenue, teacher, Eighth ward, $500.
Mrs. Sallie R. Kunsman, 1414 North Eden street, teacher, Eighth ward, $500.

Frances Craig, 210 West Huntingdon avenue, teacher, Twenty-second ward, $500.
Emma Mitchell, 919 North Arlington avenue, teacher, Twentieth ward, $500.

## PHYSICAL TRAINING TEACHERS.

C. F. E. Schulz, 1102 Myrtle avenue, Director, Twentieth ward, $1,500.
Charles W. Sultan, 205 Hanover street, Assistant Director, Fifteenth ward, $1,000.
Charlotte Hazen, 1534 Park avenue, Instructor, Twelfth ward, $504.
Lillia B. Otto, 2308 North Calvert street, Instructor, Twenty-second ward, $504.
E. Lowry Nunn, 1130 McCulloh street, Instructor, Twelfth ward, $504.
Guy Spencer, 809 West North avenue, Instructor, Twenty-first ward, $504.
India Rowland, 1126 Pennsylvania avenue, Instructor, Eleventh ward, $504.
Alice B. Dubreuil, 2712 North Charles street, Instructor, Twenty-second ward, $504.
Georgia L. Didenhover, Green Spring avenue, Instructor, Twenty-first ward, $504.
Mary A. Foley, 1505 North Calhoun street, Instructor, Twentieth ward, $504.

## BALTIMORE CITY COLLEGE.

Francis A. Soper, 2505 North Charles street, President, Twenty-second ward, $2,400.
Charles F. Raddatz, 2201 Beech avenue, Vice-President, Twenty-first ward, $2,200.
Alphonse L. Milles, 1220 Linden avenue, Professor, Twelfth ward, $2,000.
Powhatan Clarke, 143 West Lafayette avenue, Professor, Twelfth ward, $2,000.
Alfred Z. Hartman, 1210 Bolton street, Professor, Twelfth ward, $2,000.

J. Newman Hank, 308 North Eutaw street, Professor, Twelfth ward, $2,000.
Joseph H. Elliott, 1528 N. Broadway, Professor, Seventh ward, $2,000.
Stephen F. Norris, 1003 Edmondson avenue, Professor, Fourteenth ward, $2,000.
Alexander Hamilton, 1624 John street, Professor, Twelfth ward, $2,000.
G. Emory Morgan, 118 East Twenty-fourth street, Professor, Twenty-second ward, $2,000.
Philip H. Friese, 603 North Carrollton avenue, Professor, Nineteenth ward, $2,000.
Julius G. Miller, 2004 West North avenue, Professor, Twenty-first ward, $2,000.
A. Newton Ebaugh, 1201 North Charles street, Professor, Eighth ward, $2,000.
John F. Arthur, 1516 West Lexington street, Professor, Nineteenth ward, $2,000.
B. Wheeler Sweany, 1502 East Lanvale street, Professor, Seventh ward, $1,800.
Wilbur F. Smith, Clifton avenue and Thirteenth street, Professor, Twenty-first ward, $2,000.
John A. Graham, 836 Hopkins avenue, Assistant Chemical Department, Seventh ward, $720.
Louis Hennick, 706 North Fremont avenue, janitor, Fourteenth ward, $1,000.
George Sturgeon, 703 East Chase street, assistant janitor, Eighth ward, $600.
Bernard Donnelly, 542 Dolphin street, fireman, Eleventh ward, $600.

## EASTERN FEMALE HIGH SCHOOL.

William F. Wardenburg, 1613 Druid Hill avenue, Principal, Twelfth ward, $2,400.
Mary C. Geddes, Ilchester, Howard County, Assistant, Twelfth ward, $1,008.
Laura V. DeValin, 1214 Madison avenue, Assistant, Twelfth ward, $900.

Eliza E. Nicolai, 1412 E. Chase street, Assistant, Seventh ward, $900.
M. Matilda Mullin, 1203 McCulloh street, Assistant, Twelfth ward, $900.
Leonora E. Carpenter, 748 Reservoir street, Assistant, Twenty-first ward, $900.
Sue M. Lohrfinck, 1040 North Eden street, Assistant, Seventh ward, $900.
Mary C. Basil, 1640 Linden avenue, Assistant, Twelfth ward, $900.
Katherine M. Lewis, 1413 North Caroline street, Assistant, Seventh ward, $900.
Theodocia B. Mahon, 1412 East Chase street, Assistant, Seventh ward, $900.
Margaret Garrett, 702 Euclid avenue, Assistant, $900.
Anna B. Dietrichs, 503 North Gilmor street, Assistant, Nineteenth ward, $900.
Mary McLean, 24 South Bond street, Assistant, Third ward, $900.
J. Harry Deems, 1116 Mosher street, Superintendent of Music, Twentieth ward, $1,500.
William Creamer, 617 North Bond street, fireman, Fifth ward, $480.
Rosa Gluck, 1409 North Chester street, janitress, Sixth ward, $300.
Emma E. Horton, 1430 East Fayette street, janitress, Fourth ward, $240.

## WESTERN FEMALE HIGH SCHOOL.

Andrew S. Kerr, 2002 Mt. Royal Terrace, Principal, Twenty-first ward, $2,400.
Pamela A. Hartman, 1210 Bolton street, First Assistant, Twelfth ward, $1,000.
Sara S. Rice, 2004 Mt. Royal Terrace, Assistant, Twenty-first ward, $900.
Jane S. Williams, 1013 West Hopkins avenue, Assistant, Fourteenth ward, $900.
Emma Cowman, 1225 Druid Hill avenue, Assistant, Twelfth ward, $900.

Henrietta C. Adams, 1627 Druid Hill avenue, Assistant, Twelfth ward, $900.
Louisa C. Saumenig, 816 West Lombard street, Assistant, Thirteenth ward, $900.
Mrs. A. P. Tudor, Lutherville, Baltimore county, Assistant, $900.
Annie O. Sollers, Catonsville, Assistant, $900.
Mary H. Thomiz, 109 West Saratoga street, Assistant, Ninth ward, $900.
Fannie A. Caspari, 237 West Lafayette avenue, Assistant, Twelfth ward, $900.
Frances Rutter, 918 West Arlington avenue, Assistant, Twentieth ward, $900.
Roberta Davis, 602 Lenox street, Assistant, Twenty-first ward, $900.
Imogene George, 2307 North Charles street, Assistant, Twenty-second ward, $900.
Elizabeth Helsby, 1405 Edmondson avenue, Assistant, Nineteenth ward, $900.
Ada M. Spencer, 1925 Druid Hill avenue, Assistant, Twelfth ward, $900.
Mawson J. Smyrk, 1318 Myrtle avenue, fireman, Twentieth ward, $720.
Mrs. Margaret J. Sisselberger, 138 Dolphin street, janitrix, Twelfth ward, $360.
Mrs. Annie C. Jenkins, 1726 West Lanvale street, assistant janitrix, Nineteenth ward, $240.

## BALTIMORE POLYTECHNIC INSTITUTE.

John W. Saville, Hotel Condon, President, Thirteenth ward, $1,500.
Richard H. Uhrbrock, 910 Light street, Vice-President, Fifteenth ward, $1,200.
William Dugent, 403 East Twenty-fifth street, Instructor, Twenty-second ward, $1,200.
William G. Richardson, 1518 West Hollins street, Instructor, Fourteenth ward, $1,200.
William H. Hall, 1020 North Eden street, Assistant, Seventh ward, $1,000.

Thomas G. Ford, 1522 West Lanvale street, Assistant, Twentieth ward, $720.
John L. Yater, Jr., 713 Gorsuch avenue, Assistant, Twenty-second ward, $900.
John W. Willson, Thirteenth street and Clifton avenue, Assistant, Twenty-first ward, $1,000.
George M. Gaither, 913 West North avenue, Assistant, Twelfth ward, $900.
Warren S. Seipp, 1411 East Lanvale street, Assistant, Seventh ward, $900.
Frederick D. J. Kaessmann, 612 Appleton street, Assistant, Nineteenth ward, $720.
William A. Jones, 121 South Poppleton street, Assistant, Thirteenth ward, $1,200.
Samuel M. North, 1913 West Fayette street, Assistant, Nineteenth ward, $900.
William S. Blake, 752 Dolphin street, Assistant, Twentieth ward, $900.
Ralph L. Williams, 754 Dolphin street, Assistant, Twentieth ward, $720.
Frederick W. Wild, 8 Brady avenue, Assistant, Twenty-second ward, $900.
Samuel P. Platt, 703 West Lanvale street, Assistant, Nineteenth ward, $1,000.
John H. Devalin, 1231 North Bond street, Assistant, Seventh ward, $1,000.
William P. Gundry, 917 Frederick avenue, Assistant, Twenty-first ward, $720.
Ollie Bacharach, 18 North Caroline street, Assistant, Fourth ward, $720.
Alfred C. Layman, 1131 North Carey street, temporary, Twentieth ward, $720.
James B. Plaskett, 2303 Maryland avenue, janitor, Twenty-second ward, $720.
John E. Rodemeyer, 1104 Linden avenue, janitor, Twelfth ward, $720.
Edwin M. Baker, 128 South Dden street, fireman, Third ward, $720.
William T. Harrison, 111 Hamburg street, watchman, Seventeenth ward, $480.

## COLORED POLYTECHNIC INSTITUTE.

W. Robinson Ryan, 871 West Lombard street, Principal Instructor in Drawing and Steam Engineering, Thirteenth ward, $900.

John E. Auld, 810 William street, Instructor in Blacksmithing and Venitian Work, Fifteenth ward, $900.

Charles Schmidt, 785 George street, Instructor in Wood Working Department, Eleventh ward, $900.

Frank W. Waterman, 1728 Fulton avenue, Instructor in Tin and Machine Shop, Twentieth ward, $900.

Samuel T. Lester, 1100 North Carrollton avenue, First Assistant Academic Department, Twentieth ward, $600.

William Milner Maloy, 1020 McCulloh street, Second Assistant Academic Department, Twelfth ward, $600.

Henry Deussen, Belair avenue extended, Third Assistant Academic Department, Twenty-second ward, $600.

William Thomas, 870 Vine street, janitor, colored, Thirteenth ward, $480.

## MALE GRAMMAR SCHOOL No. 1.

Henry B. Gwynn, 724 North Gilmor street, Principal, Nineteenth ward, $1,500.

Chas. J. Koch, 1430 Druid Hill avenue, First Assistant, Twelfth ward, $900.

Amanda M. Seip, 1626 Hollins street, Second Assistant, Nineteenth ward, $516.

Rebecca J. Haswell, 606 Lennox street, Third Assistant, Twenty-second ward, $504.

Belinda Roberts, 113 West Barre street, Third Assistant, Fifteenth ward, $504.

Cecilia K. Quandt, 952 Harlem avenue, Third Assistant, Fourteenth ward, $504.

Lida E. Watkins, 908 West Mulberry street, Third Assistant, Tenth ward, $504.

Ray Raffel, 805 West Fayette street, Third Assistant, Thirteenth ward, $504.
John H. Winter, 858 West Pratt street, fireman, Thirteenth ward, $210.
Mary Rider, 502 West Biddle street, janitrix, Eleventh ward, $199.

MALE GRAMMAR SCHOOL No. 2.

William T. Markland, 1703 Jefferson street, Principal, Sixth ward, $1,500.
Charles H. Meeth, First Assistant, Seventeenth ward, $900.
Annette S. Willis, 1916 E. Baltimore street, Second Assistant, Third ward, $516.
Julia F. Hupp, 1319 North Broadway, Third Assistant, Seventh ward, $504.
Lillie M. Conyers, 327 South Bond street, Third Assistant, Second ward, $504.
Georgia Miles, Clifton avenue, Walbrook, Third Assistant, Twenty-first ward, $504.
E. Marguerite Mullen, 114 North Patterson Park avenue, Third Assistant, Sixth ward, $504.
Nellie R. Cunningham, 1620 St. Paul street, Third Assistant, Twenty-second ward, $504.
Rosa Garrett, 23 North Chester street, Third Assistant, First ward, $504.
E. Esther Pritchett, 2516 North Charles street, Third Assistant, Twenty-second ward, $504.
Sadie M. Hodges, 1810 East Baltimore street, Third Assistant, Third ward, $504.
Matilda Gebhardt, 209 South Chester street, Third Assistant, First ward, $504.
Carrie E. Daugherty, 1316 Aisquith street, Third Assistant, Seventh ward, $504.
Mrs. Eliza Devaughn, 205 South Washington street, janitrix, Second ward, $216.
Winifred Flanagan, 318 Albemarle street, janitrix, Second ward, $120.
Thomas McKinley, 101 North Caroline street, fireman, Third ward, $600.

## MALE GRAMMAR SCHOOL No. 3.

Jacob Grape, 2119 North Calvert street, Principal, Twenty-second ward, $1,296

David E. Weglein, 1329 W. Baltimore street, First Assistant, Nineteenth ward, $804.

Helen R. Buck, 905 East Fayette street, Second Assistant, Fourth ward, $516.

Annie M. Salom, 343 St. Paul street, Third Assistant, Ninth ward, $504.

Maggie M. V. Hennessey, 113 South High street, Third Assistant, Fourth ward, $504.

Harry R. Palmer, 1128 Laurel street, fireman, Fourth ward, $90.

Mary Conely, 1223 East Lexington street, janitrix, Fourth ward, $156.

## MALE GRAMMAR SCHOOL No. 4.

Andrew J. Pietsch, 1014 Edmondson avenue, Principal, Fourteenth ward, $1,500.

Wyatt W. Estep, 234 Lafayette avenue, First Assistant, Twelfth ward, $900.

Jenny P. Ferguson, 102 West Hill street, Second Assistant, Fifteenth ward, $516.

Amelia E. Thornton, 323 Roland avenue, Third Assistant, just outside Twenty-first ward, $504.

Martha Stromberg, 2339 Madison avenue, Third Assistant, Twenty-first ward, $504.

Lucile W. Benser, 134 West Hill street, Third Assistant, Fifteenth ward, $504.

Cora I. Linthicum, 509 South Paca street, Third Assistant, Sixteenth ward, $504.

Ella H. Evans, 922 E. Madison avenue, Third Assistant, Eight ward, $504.

Belle H. Needham, 423 Sharp street, Third Assistant, Ninth ward, $504.

Gertrude H. Lewis, 521 Hanover street, Third Assistant, Fifteenth ward, $504.

Mary Hutton, 7 W. West street, janitrix, Seventeenth ward, $180.
Minnie E. Heider, Hanover and Henrietta streets, janitrix (branch), Fifteenth ward, $96.

MALE GRAMMAR SCHOOL No. 5.

Stephen A. Cremen, 1625 Druid Hill avenue, Principal, Twelfth ward, $1,500.
Charton B. Strayer, 1502 Hollins street, First Assistant, Nineteenth ward, $900.
Jennie Wolf, 1220 West Lanvale street, Second Assistant, Twentieth ward, $516.
Eliz. A. Clarke, 928 Greenmount avenue, Third Assistant, Eighth ward, $504.
Jennie Boone, 1213 Guilford avenue, Third Assistant, Eighth ward, $504.
Mary Reynolds, 1046 Valley street, Third Assistant, Eighth ward, $504.
Emma S. Curley, 419 East Biddle street, Third Assistant, Eighth ward, $504.
Margaret G. Kirk, 1422 Argyle avenue, Third Assistant, Twentieth ward, $504.
Mrs. Ellen O'Brien, 1024 Homewood avenue, janitrix, Eighth ward, $156.

MALE GRAMMAR SCHOOL No. 6.

William Carey Robinson, 1429 Edmondson avenue, Principal, Nineteenth ward, $1,500.
Harvey W. North, 103 Warren avenue, First Assistant, Fifteenth ward, $900.
Emily F. Skinner, 1011 Druid Hill avenue, Second Assistant, Twelfth ward, $516.
Joanna Van Daniker, 1229 Druid Hill avenue, Third Assistant, Twelfth ward, $504.
T. Anna Cromwell, 2125 McCulloh street, Third Assistant, Twelfth ward, $504.
M. Theresa Dallam, 307 Dolphin street, Third Assistant, Twelfth ward, $504.

Josephine A. Willson, 1517 Mt. Royal avenue, Third Assistant, Twelfth ward, $504.
Sadie M. Farquhar, 421 Mosher street, Third Assistant, Twelfth ward, $504.
Hattie M. Cowman, 1219 Madison avenue, Third Assistant, Twelfth ward, $504.
Carrie W. Hewitt, 1213 Bolton street, Third Assistant, Twelfth ward, $504.
Francis L. Ross, 1201 Park avenue, fireman, Twelfth ward, $360.
Kate Fulton, 528 McMechen street, janitrix, Twelfth ward, $180.

## MALE GRAMMAR SCHOOL No. 7.

Edwin Hebden, 1527 North Broadway, Principal, Seventh ward, $1,404.
Walter H. Wellslager, 316 South Broadway, First Assistant, Third ward, $900.
Hattie U. Hall, 315 East North avenue, Second Assistant, Twenty-second ward, $516.
Elizabeth E. McKenna, 2535 Eastern avenue, Third Assistant, First ward, $504.
Maggie Durkin, 221 South Washington street, Third Assistant, First ward, $504.
M. Rose Patterson, 529 South Chester street, Third Assistant, Second ward, $504.
Kate M. Beckman, 424 South Patterson Park avenue, Third Assistant, First ward, $504.
Sophia J. Siegle, 1053 North Central avenue, Third Assistant, Seventh ward, $504.
Georgia H. Bump, 118 South Chester street, Third Assistant, First ward, $504.
Bernice Martin, 720 North Broadway, Third Assistant, Sixth ward, $504.
Mary M. Reth, 512 South Wolfe street, Third Assistant, Second ward, $504.
Daisy N. Read, Harford avenue extended, Third Assistant, Twenty-first ward, $504.

Walter C. Thomas, 2218 East Pratt street, fireman, First ward, $270.
Mary Curran, 2309 Eastern avenue, janitrix, First ward, $180.

MALE GRAMMAR SCHOOL No. 8.

Samuel E. Keller, 1421 West Lanvale street, Principal, Twentieth ward, $1,500.
I. Frederick Ruppel, 242 South Bond street, First Assistant, Third ward, $900.
Helen W. Bankhead, 1716 Frederick avenue, Second Assistant, Eighteenth ward, $516.
Emma F. Gilbert, 202 North Gilmor street, Third Assistant, Nineteenth ward, $504.
Amelia H. Gatchell, 1423 West Lombard street, Third Assistant, Fourteenth ward, $504.
Sallie C. Weedon, 104 North Calhoun street, Third Assistant, Nineteenth ward, $504.
Elizabeth J. Champagne, Catonsville, Third Assistant, First District, $504.
Annie W. Lester, 1925 West Fayette street, Third Assistant, Nineteenth Ward, $504.
Elizabeth Bellis, 523 North Carrollton avenue, Third Assistant, Fourteenth ward, $504.
Margaret M. Kapler, 221 North Fulton avenue, Third Assistant, Nineteenth ward, $504.
Ella J. Leibe, 509 Scott street, Third Assistant, Eighteenth ward, $504.
Mrs. Dorothy Duvall, 116 South Monroe street, janitrix, Eighteenth ward, $156.
Howard Eckman, 2181 Calverton avenue, fireman, Eighteenth ward, $420.

MALE GRAMMAR AND PRIMARY SCHOOL No. 9.

Basil Sollers, 1208 Bolton street, Principal, Twelfth ward, $1,500.
Sophia E. Grape, 409 Aisquith street, First Assistant, Fifth ward, $672.

Emily Hyde, 1227 Guilford avenue, Assistant (Grammar), Ninth ward, $504.
Mamie Russell, 1215 Riverside avenue, Assistant (Primary, First Grade), Seventeenth ward, $504.
Della W. Hale, 615 North Calvert street, Assistant (Primary), Ninth Ward, $468.
Isabelle Quinn, 808 North Calvert street, janitrix, Ninth ward, $132.

MALE GRAMMAR SCHOOL No. 10.

Joseph C. Hand, 406 East Randall street, Principal, Seventeenth ward, $1,404.
Peter J. Doran, 14 North Gay street, First Assistant, Ninth ward, $900.
M. Blanche Reindollar, 1032 West Hopkins avenue, Second Assistant, Fourteenth ward, $516.
Eva Deal, 1431 Patterson avenue, Third Assistant, Nineteenth ward, $504.
Carrie H. McGee, 317 Warren avenue, Third Assistant, Fifteenth ward, $504.
Lula E. Leach, 324 East Twenty-second street, Third Assistant, Twenty-second ward, $504.
Cora E. Henderson, 807 Covington street, Third Assistant, Fifteenth ward, $504.
Grace S. Sanders, 417 East Hamburg street, Third Assistant, Fifteenth ward, $504.
M. Mary E. Mitchell, 1814 Park avenue, Third Assistant, Twenty-first ward, $504.
Irene B. Mitchell, 602 West Barre street, Third Assistant, Sixteenth ward, $504.
Carrie McKay, 638 North Carey street, Third Assistant, Nineteenth ward, $504.
Elizabeth F. Nusbaum, 2306 North Calvert street, Third Assistant, Twenty-second ward, $504.
Ella M. Jones, 520 North Arlington avenue, Third Assistant, Fourteenth ward, $444.
Elizabeth Kelley, 112 E. Hamburg street, janitrix, main building, Fifteenth ward, $215.25.
Mary Mortimer, 1510 Byrd street, janitrix, Seventeenth ward, $136.

## MALE GRAMMAR SCHOOL No. 11.

Judson Hunt, 508 North Stricker street, Principal, Nineteenth ward, $1,404.
Edward Sickel, 512 Aisquith street, First Assistant, Fifth ward, $900.
Annie E. Coleman, 1307 Ashland avenue, Second Assistant, Seventh ward, $516.
Cora A. McClintock, 313 North Broadway, Third Assistant, Sixth ward, $504.
Mary E. Graham, 836 Hopkins avenue, Third Assistant, Seventh ward, $504.
Ella R. Kenney, 2026 East Hoffman street, Third Assistant, Seventh ward, $504.
Elizabeth V. Brown, 1211 Ashland avenue, Third Assistant, Fifth ward, $504.
Lily W. Mayer, 126 North Milton avenue, Third Assistant, Sixth ward, $504.
Maggie E. Downey, 3001 East Monument street, Third Assistant, Sixth ward, $504.
Mattie E. Baldwin, 2105 East Fayette street, Third Assistant, Sixth ward, $504.
William N. Hanson, 620 North Washington street, fireman, Sixth ward, $210.
Catherine Finch, 1517 Jefferson street, janitrix, Sixth ward, $192.

## MALE GRAMMAR SCHOOL No. 12.

James R. Shipley, 605 West Conway street, Principal, Sixteenth ward, $1,500.
W. James Wilkinson, 1640 East Preston street, First Assistant, Seventh ward, $900.
Emma M. Webster, 644 West Lombard street, Second Assistant, Thirteenth ward, $516.
Annie R. Linthicum, 200 Lafayette avenue, Third Assistant, Twelfth ward, $504.
Kate F. Doerksen, 1710 West Fayette street, Third Assistant, Nineteenth ward, $504.
Emma E. Dietrichs, 503 North Gilmor street, Third Assistant, Nineteenth Ward, $504.

Edna D. Fort, 1024 North Arlington avenue, Third Assistant, Twentieth ward, $504.
Mary G. Young, 1808 West Baltimore street, Third Assistant, Nineteenth ward, $504.
Mary E. Jacobs, 1024 West Franklin street, Third Assistant, Fourteenth ward, $504.
Mary Wright, 640 West Saratoga street, Third Assistant, Tenth ward, $504.
William Trumbo, 630 West Lee street, fireman, Sixteenth ward, $180.
Mary Connors, 184 West Cross street, janitrix, Eighteenth ward, $192.

MALE GRAMMAR SCHOOL No. 13.

Charles E. Markland, 1505 East Chase street, Principal, Seventh ward, $1,296.
Faustinia Myles, 406 East North avenue, First Assistant, Twenty-second ward, $672.
Bessie Gray, 906 McCulloh street, Second Assistant, Eleventh ward, $516.
Isabella V. Joice, 1526 Mt. Royal avenue, Third Assistant, $504.
Susanna Bouldin, 839 Aisquith street, Third Assistant, Fifth ward, $504.
Sarah Williamson, 219 North Caroline street, janitrix, Fourth ward, $180.

MALE GRAMMAR SCHOOL No. 15.

George W. Ebaugh, 518 North Gilmor street, Principal, Nineteenth ward, $1,500.
Edwin E. Sniger, 824 North Carey street, First Assistant, Twentieth ward, $900.
Kate McCollum, 107 North Carey street, Second Assistant, Nineteenth ward, $516.
Ida Jarrett, 150 Wilson street, Third Assistant, Twelfth ward, $504.
Annie W. Jessop, Glyndon, Baltimore county, Third Assistant, $504.

Annie E. Krause, 1037 West Fayette street, Third Assistant, Fourteenth ward, $504.
Laura W. Mainster, Towson, Baltimore county, Third Assistant, $504.
Mary Bell, 2113 Linden avenue, Third Assistant, Twenty-first ward, $504.
Nellie C. Smith, 1714 Guilford avenue, Third Assistant, Eighth ward, $504.
Blanche A. Colladay, 1602 Harlem avenue, Third Assistant, Nineteenth ward, $504.
Minnie V. Imhofe, Mt. Hope, Baltimore county, Third Assistant, $504.
Rose Northam, 812 North Calhoun street, Third Assistant, Twentieth ward, $504.
Katherine Van Meter, 1169 North Mount street, temporary, Nineteenth ward, $444.
Charles A. Harvey, 1841 West Lombard street, fireman, Fourteenth ward, $360.
Kate Newton, 246 Arlington avenue, janitrix, Fourteenth ward, $173.25.
Ellen Meehan, 62 South Carrollton avenue, janitrix, Nineteenth ward, $168.

## MALE GRAMMAR SCHOOL No. 16.

John S. Black, 11 North Collington avenue, Principal, Grammar, Sixth ward $1,500.
Hannah H. Dorritee, 1735 East Baltimore street, First Assistant, Grammar, Third ward, $672.
Anna M. Rue, 1151 North Carey street, Second Assistant, Primary, Twentieth ward, $516.
Genevieve Kenney, 1333 North Central avenue, Third Assistant, Grammar, Seventh ward, $504.
Laura V. Feddeman, 1821 East Lombard street, Third Assistant, Grammar, Third ward, $504.
Mary Harriet Sweeney, 1727 Gough street, Third Assistant, Primary, Second ward, $504.
Annie C. Schloegel, 406 South Bond street, Third Assistant, Primary, Second ward, $504.

Clara H. Foxwell, 518 North Fulton avenue, Third Assistant, Primary, Nineteenth ward, $504.
Clara J. Morris, 220 South Patterson Park avenue, Third Assistant, Primary, First ward, $504.
Anna Schmidt, 617 South Broadway, Third Assistant, Primary, Second ward, $504.
Annie S. O'Brien, 515 North Carey street, temporary, Nineteenth ward, $408.
Elmer E. Cloman, 1327 Hull street, fireman, Seventeenth ward, $180.
Annie Ettel, 319 South Bond street, janitrix, Second ward, $204.

## MALE GRAMMAR SCHOOL No. 17.

Albert F. Wilkerson, 1712 West Lombard street, Principal, Fourteenth ward, $1,500.
Thomas C. Williams, 733 North Broadway, First Assistant, Fifth ward, $900.
Olivia E. Spamer, 1614 St. Paul street, Second Assistant, Eighth ward, $516.
Anna E. Snyder, 2020 East Baltimore street, Third Assistant, Sixth ward, $504.
Maria L. Hurley, 2434 East Fayette street, Third Assistant, Sixth ward, $504.
Margaret T. McAvoy, 3006 Elliott street, Third Assistant, First ward, $504.
Bessie C. Reeves, 940 West Franklin street, Third Assistant, Tenth ward, $504.
Birdie Schneeberger, 2042 East Fairmount avenue, Third Assistant, Sixth ward, $504.
Lillian E. Maxwell, 2002 East Baltimore street, Third Assistant, Sixth ward, $504.
Hattie B. Strebeck, 2210 East Lombard street, Third Assistant, First ward, $504.
Annie Schlegel, 2004 East Fairmount avenue, janitrix, Sixth ward, $192.

## MALE GRAMMAR SCHOOL No. 18.

Chas. H. Cockey, 211 North Gilmor street, Principal, Nineteenth ward, $1,500.
Henry Zoller, Jr., 608 North Carrollton avenue, First Assistant, Nineteenth ward, $900.
Nellie V. Barnes, 620 West Franklin street, Second Assistant, Eleventh ward, $516.
Lucy M. Hamilton, 603 North Calhoun street, Third Assistant, Nineteenth ward, $504.
Leola Dixon, 912 North Stricker street, Third Assistant, Nineteenth ward, $504.
Gertrude H. Gillen, Walbrook, Third Assistant, Twenty-first ward, $504.
Julia F. Beck, 1204 Argyle avenue, Third Assistant, Twentieth ward, $504.
Anna M. Brooks, 2411 North Calvert street, Third Assistant, Twenty-second ward, $504.
Emma H. Mechem, 2206 North Calvert street, Third Assistant, Twenty-second ward, $504.
Wm. E. Coale, 1708 West Lanvale street, fireman, Nineteenth ward, $330, and $330 more from Female Department.
Mary Minogue, 847 West Franklin street, janitrix, Tenth ward, $180.

## MALE GRAMMAR SCHOOL No. 19.

Charles M. Elliott, 1323 Linden avenue, Principal, Twelfth ward, $1,500.
Mary W. Wallace, 1015 Madison avenue, First Assistant, Twelfth ward, $672.
Anna C. Webster, 1609 John street, Second Assistant, Twelfth ward, $516.
Eliza E. Baird, 1117 Bolton street, Third Assistant, Twelfth ward, $504.
Sophie G. Scudder, 1610 North Charles street, Third Assistant, Twelfth ward, $504.
Mary Thomas, 1206 John street, Third Assistant, Twelfth ward, $504.

Minnie P. De Valin, 1214 Madison avenue, Third Assistant, Twelfth ward, $504.
May G. Hennessee, 2233 North Charles street, Third Assistant, Twelfth ward, $504.
Mary A. Pierce, 2100 McCulloh street, Third Assistant, Twelfth ward, $504.
E. Grace Rice, 2004 Mt. Royal avenue, Third Assistant, Twenty-first ward, $504.
Elizabeth B. Fisher, 1916 Linden avenue, Third Assistant, Twelfth ward, $504.
Joseph J. Pfisterer, 1407 Pennsylvania avenue, fireman, Twelfth ward, $720.
Bridget Gahagen, 162 Dolphin street, janitrix, Twelfth ward, $180.

MALE GRAMMAR SCHOOL No. 20.

William H. Tolson, 1100 North Caroline street, Principal, Seventh ward, $1,500.
David G. Butterfield, 21 West Oliver street, First Assistant, Eighth ward, $900.
Annie E. Welty, 734 North Gilmor street, Second Assistant, Twentieth ward, $516.
Mary A. Regester, 315 East Lafayette avenue, Third Assistant, Eighth ward, $504.
Ida S. Stoddard, 1349 West North avenue, Third Assistant, Twelfth ward, $504.
Martha J. Hardey, 1202 North Eden street, Third Assistant, Seventh ward, $504.
Alice Foster, 2104 Barclay street, Third Assistant, Twenty-second ward, $504.
Mollie E. Gately, 1635 North Caroline street, Third Assistant, Seventh ward, $504.
Genevieve R. Quinn, 1635 North Caroline street, Third Assistant, Seventh ward, $504.
Fannie F. Guyton, 1305 North Central avenue, Third Assistant, Seventh ward, $504.
Catherine S. Millar, 409 East Lanvale street, Third Assistant, Eighth ward, $504.

Ella V. Rodenmayer, 1708 North Caroline street, Third Assistant, Seventh ward, $504.
Annie J. Dawson, 1526 North Caroline street, Third Assistant, Seventh ward, $504.
C. Maude Brown, 1803 Guilford avenue, Third Assistant, Eighth ward, $504.
Margaret M. Cadogen, 1515 Mt. Royal avenue, Third Assistant, Twelfth ward, $504.
Mary Spalding, 1821 North Calvert street, Third Assistant, Eighth ward, $504.
Elizabeth Gessner, 1309 Harford avenue, janitrix, Seventh ward, $240.
Henry M. Schaffer, 1615 North Spring street, fireman, Seventh ward, $360.

MALE GRAMMAR SCHOOL No. 21.

David P. Brown, 2237 Madison avenue, Principal, Twenty-first ward, $1,500.
James S. Rogers, 515 Robert street, First Assistant, Twelfth ward, $900.
Fannie S. Brown, 1818 Madison avenue, Second Assistant, Twelfth ward, $516.
Belle F. Gardner, 814 West North avenue, Third Assistant, Twenty-first ward, $504.
Lily E. Seidenstricker, 610 North Fulton avenue, Third Assistant, Nineteenth ward, $504.
Georgia L. Robertson, 94 Mosher street, Third Assistant, Twelfth ward, $504.
Louisa Shipley, 1137 North Gilmor street, Third Assistant, Nineteenth ward, $504.
Sallie E. Weedon, 563 Presstman street, Third Assistant, Twelfth ward, $504.
Grace S. Arnold, 533 North Fulton avenue, Third Assistant, Nineteenth ward, $504.
Mary E. Reckert, 1342 Lafayette avenue, Third Assistant, Twentieth ward, $504.
Mrs. Mary Boyd, 1621 Presstman street, janitrix, Twentieth ward, $201.

MALE AND FEMALE GRAMMAR SCHOOL No. 22.

John D. Lickle, Tenth street, Walbrook, Principal, Twenty-first ward, $1,500.
Anna C. Hugg, 710 Edmondson avenue, First Assistant, Twentieth ward, $672.
Jeannette V. Perkins, 837 West Fayette street, Second Assistant, $516.
Grace L. Northam, 812 North Calhoun street, Third Assistant, Twentieth ward, $504.
Emma L. McCubbin, 1821 West Lanvale street, Third Assistant, Nineteenth ward, $504.
Eliza I. Barton, 12 East Twenty-second street, Third Assistant, Twenty-second ward, $504.
Sadie Ogle, 626 West Mulberry street. temporary, Tenth ward.
Edward F. Callahan, 839 McHenry street, fireman, Thirteenth ward, $120.
Catherine Watson, 901 West Mulberry street, janitrix, Tenth ward, $156.

FEMALE GRAMMAR SCHOOL No. 1.

Henrietta A. Carl, Lutherville, Principal, $900.
Mary E. Templeton, 906 Harlem avenue, First Assistant, Fourteenth ward, $648.
Mary H. Bailey, 1414 West Lanvale street, Second Assistant, Nineteenth ward, $504.
Belle T. Crangle, 940 Harlem avenue, Assistant, Fourteenth ward, $480.
Catherine B. Holden, 910 Argyle avenue, Assistant, Eleventh ward, $480.
Clara B. Kremer, 538 North Fulton avenue, Assistant, Nineteenth ward, $480.
Kate L. Thompson, 863 West Lombard street, Assistant, Thirteenth ward, $480.
Sophia L. Ditty, 226 West Lanvale street, Assistant, Twelfth ward, $480.
Katie L. Lamberd, 700 Arlington avenue, Assistant, Twentieth ward, $480.

Frederick Laib, 227 North Schroeder street, fireman, Thirteenth ward, $240.
Sarah Hodges, 772 Vine street, janitrix, colored, Fourteenth ward, $204.

FEMALE GRAMMAR SCHOOL No. 2.

Anna H. Oakes, 1735 East Baltimore street, Principal, Third ward, $900.
Rachel A. Spenser, 1308 North Gilmor street, First Assistant, Nineteenth ward, $648.
Hannah P. Gray, 1308 North Gilmor street, Second Assistant, Nineteenth ward, $504.
Cora V. Grumbine, 1929 East Pratt street, Third Assistant, First ward, $480.
Julia F. Abbott, 1823 Fairmount avenue, Third Assistant, Fourth ward, $480.
Emma D. Cugle, 1228 East Baltimore street, Third Assistant, Third ward, $480.
Helen D. Kenney, 1333 North Central avenue, Third Assistant, Seventh ward, $480.
Helen S. Hemmick, 2612 West North avenue, Third Assistant, Twenty-first ward, $480.
Mathilde J. Thieme, 307 South Broadway, Third As-Assistant, Second ward, $480.
Margaret Goetz, 2204 East Pratt street, Third Assistant, First ward, $480.
Caroline Sahm, 427 South Broadway, Third Assistant, Second ward, $480.
Ida B. Everett, 1613 East Lafayette avenue, Third Assistant, Seventh ward, $480.
Annie F. Alexander, 906 Hopkins avenue, Third Assistant, Seventh ward, $480.
Mary E. Wright, 208 South Caroline street, janitrix, Third ward, $216.

FEMALE GRAMMAR SCHOOL No. 3.

Jennie R. Price, 1008 Pennsylvania avenue, Principal, Eleventh ward, $900.
Nora Jones, 916 East Biddle street, First Assistant, Seventh ward, $648.

Emma Furlong, 2006 Linden avenue, Second Assistant, Twenty-first ward, $504.
Annie C. Peed, 1245 East Lexington street, Third Assistant, Fifth ward, $480.
Mary E. Englehart, 1018 Hillen street, Third Assistant, Fifth ward, $480.
Mrs. Kate Krauss, 532 Colvin street, janitrix, Fifth ward, $156.
Harry R. Palmer, 1128 Laurel street, fireman, Fourth ward, $90.

FEMALE GRAMMAR SCHOOL No. 4.

Laura T. Hollingshead, 715 York road, Principal, Twenty-second ward, $900.
Mary E. Holmes, 846 West Lombard street, First Assistant, Thirteenth ward, $648.
Marion J. Henrix, 1400 Park avenue, Second Assistant, Twelfth ward, $504.
Mary H. Sumwalt, 529 South Charles street, Third Assistant, Fifteenth ward, $480.
Viola L. Kultenbach, 236 East Montgomery street, Third Assistant, Fifteenth ward, $480.
Clara V. Tapman, 2108 Wilkens avenue, Third Assistant, Eighteenth ward, $480.
Florence Stromberg, 2339 Madison avenue, Third Assistant, Twenty-first ward, $480.
K. Maud Ferguson, 1415 West Mount street, Third Assistant, Twentieth ward, $480.
Eunice B. Sterling, 2414 Maryland avenue, Third Assistant, Twenty-second ward, $432.
Elizabeth V. Hobbs, 1331 North Stricker street, Third Assistant, Nineteenth ward, $480.
Mrs. Lowery, Battery avenue near West street, janitrix, Seventeenth ward, $192.

FEMALE GRAMMAR SCHOOL No. 5.

Louisa M. Kelly, 1828 West Mulberry street, Principal, Twentieth ward, $900.
Mary G. Kenny, 600 East Eager street, First Assistant, Eighth ward, $648.

Mary M. Cunningham, 1746 Federal street, Second Assistant, Seventh ward, $504.
Mollie E. Smiley, 1221 North Eden street, Third Assistant, Seventh ward, $480.
Nellie B. McDonald, 705 North Calvert street, Third Assistant, Ninth ward, $480.
Nellie Armiger, 1231 Harford avenue, Third Assistant, Seventh ward, $480.
Agnus Chandler, 1534 John street, Third Assistant, Twelfth ward, $480.
Grace Larkin, 1029 Forest place, Third Assistant, Eighth ward, $480.
Mary Mallan, 1030 Hillman street janitress, Eighth Ward, $156.

FEMALE GRAMMAR SCHOOL No. 6.

Eliza Adams, 1401 Druid Hill avenue, Principal, Twelfth ward, $900.
Annie H. Graham, 1805 McCulloh street, First Assistant, Twelfth ward, $648.
Amelia T. Mackee, 1401 Druid Hill avenue, Second Assistant, Twelfth ward, $504.
Clara Carl, Lutherville, Md., Third Assistant, $480.
Sarah M. Van Daniker, 1229 Druid Hill avenue, Third Assistant, Twelfth ward, $480.
Matilda Walker, 931 West Franklin street, Third Assistant, Tenth ward, $480.
Araminta Seegar, 1529 Park avenue, Third Assistant, Twelfth ward, $480.
Virginia Rogers, 125 West Lafayette avenue, Third Assistant, Twelfth ward, $480.
Elizabeth Hopkins, 1311 Linden avenue, Third Assistant, Twelfth ward, $480.
Mrs. Alice H. Strother, 1016 McCulloh street, Third Assistant, Twelfth ward, $480.
Caroline Dashiell, 1127 McCulloh street, Third Assistant, Twelfth ward, $480.
M. Leona Kliebacker, 827 North Fremont avenue, Third Assistant, Twentieth ward, $480.

Francis Ross, 1201 Park avenue, fireman, Twelfth ward, $30. For six months.
Jessie Conway, 1310 Madison auenue, janitrix, Twelfth ward. Has the use of the building not occupied by the school.
Mrs. Maria Green, 558 Orchard street, janitrix, colored, Eleventh ward, $192.

## FEMALE GRAMMAR SCHOOL No. 7.

Estelle Gilligan, 2326 East Baltimore street, Principal, Sixth ward, $900.
Carrie M. Kerr, 716 South Bond street, First Assistant, Second ward, $648.
Sarah A. McGinnis, 519 South Montford avenue, Second Assistant, First ward, $504.
Emma B. Tumbleson, 239 South Broadway, Third Assistant, Third ward, $480.
Joanna D. Hupp, 1319 North Broadway, Third Assistant, Seventh ward, $480.
Mrs. Lottie E. Jenkins, 2306 East Baltimore street, Third Assistant, Sixth ward, $480.
Lillian A. Woodall, 1 South Fulton avenue, Third Assistant, Eighteenth ward, $480.
Lilly E. Hamel, 40 North Patterson Park avenue, Third Assistant, Sixth ward, $480.
Jessie S. Bell, 2201 East Baltimore street, Third Assistant, First ward, $480.
Margaret F. Wrightson, 316 South Washington street, Third Assistant, First ward, $480.
M. Florence Perry, 1516 East Chase street, Third Assistant, Seventh ward, $480.
Ada Stowell, 819 North Fremont avenue, Third Assistant, Twenty-first ward, $480.
Walter C. Thomas, 2218 East Pratt street, fireman, First ward, $305.
Mrs. Margaret McCaffry, 522 South Montford avenue, janitress, First ward, $180.

## FEMALE GRAMMAR SCHOOL No. 8.

Adelaide L. Hall, 313 North Carey street, Principal, Nineteenth ward, $900.
Annie W. Nicholson, 1710 Hollins street, First Assistant, Fourteenth ward, $648.
Eliza J. Ward, 318 North Mount street, Second Assistant, Nineteenth ward, $504.
Carrie T. Baker, 104 North Calhoun street, Third Assistant, Nineteenth ward, $480.
Priscilla J. Owens, 1700 West Lombard street, Third Assistant, Fourteenth ward, $480.
Mary E. Della, 1144 Hanover street, Third Assistant, Seventeenth ward, $480.
Mary H. Lee, 313 North Carey street, Third Assistant, Nineteenth ward, $480.
Margaret E. Feddeman, 203 East Lanvale street, Third Assistant, Eighth ward, $480.
Leonora Robinson, 708 West North avenue, Third Assistant, Twenty-first ward, $480.
L. Ava Weedon, 104 North Calhoun street, Third Assistant, Nineteenth ward, $480.
Reba C. Hart, 113 North Stricker street, Third Assistant, Nineteenth ward, $480.
Janie S. Ing, 1802 East Baltimore street, Third Assistant, First ward, $480.
Mrs. Catharine Mallen, 330 South Fulton avenue, janitrix, Eighteenth ward, $156.
Mrs. Emma Healey, 1907 Frederick avenue, janitrix, Eighteenth ward, $192.
Mrs. Elizabeth Kearney, 1914 Lemon street, janitrix, Eighteenth ward, $180.

## FEMALE GRAMMAR AND PRIMARY SCHOOL No. 9.

Anna G. Chappell, 1609 John street, Principal, Twelfh ward, $900.
Agnes V. Parsons, 11 West Mulberry street, First Assistant (Grammar), Tenth ward, $648.

Alice V. Grimes, 809 Harlem avenue, First Grade (Primary), Twentieth ward, $504.
Mary E. Stromenger, 132 Jackson Place, Third Assistant (Grammar), Third ward, $480.
Nannie C. Travers, 524 West Mulberry street, Assistant (Primary), Tenth ward, $468.
Eliza Buckley, 411 Courtland street, janitress, Ninth ward, $156.

## FEMALE GRAMMAR SCHOOL No. 10.

Margery V. Newman, 1520 South Charles street, Principal, Seventeenth ward, $900.
Dorothy C. Short, 314 East Twenty-second street, First Assistant, Twenty-second ward, $648.
Anna J. Rieve, 121 East West street, Second Assistant, Seventeenth ward, $504.
Maggie E. Brady, 110 Warren avenue, Third Assistant, Fifteenth ward, $480.
Jennie C. Dryden, 213 West Fayette street, Third Assistant, Ninth ward, $480.
Hattie Gump, 1902 Madison avenue, Third Assistant, Twelfth ward, $480.
M. Nettie Hoblitzell, 1049 West Hopkins avenue, Third Assistant, Fourteenth ward, $480.
Lida A. Kennedy, 323 East Twentieth street, Third Assistant, Twenty-second ward, $480.
Almira A. Bowman, 208 East Montgomery street, Third Assistant, Fifteenth ward, $480.
Edith S. Hope, 804 William street, Third Assistant, Fifteenth ward, $480.
Lulu Reese, 919 Hanover street, Third Assistant, Fifteenth ward, $480.
Maggie M. Johnson, 832 William street, Third Assistant, Fifteenth ward, $480.
M. Annette Saumenig, 816 West Lombard street, Third Assistant, Thirteenth ward, $432.

Christina Johnson, 1443 Patapsco street, janitress, Seventeenth ward, $168.
Emma Mortimer, 1510 Byrd street, janitress, Seventeenth ward, $120.

FEMALE GRAMMAR SCHOOL No. 11.

Nancy W. Smith, 1100 North Caroline street, Principal, Seventh ward, $900.
Lida S. Eckel, 1716 North Broadway, First Assistant, Seventh ward, $648.
Rennis L. Pope, 324 Sheld. avenue, Roland Park, Second Assistant, $504.
Ella J. Fanloe, 1522 North Caroline street, Third Assistant, Seventh ward, $480.
Blanche H. Taylor, 1309 West Bond street, Third Assistant, Seventh ward, $480.
Ida E. Marchant, 2018 East Baltimore street, Third Assistant, Sixth ward, $480.
Lillie M. Borrell, 418 North Bond street, Third Assistant, Sixth ward, $480.
Mary E. League, 1934 McElderry street, Third Assistant, Seventh ward, $480.
Hattie J. Adams, 1523 East Biddle street, Third Assistant, Seventh ward, $480.
Blanche Rosenthal, 1118 North Eden street, Third Assistant, Seventh ward, $480.
Fannie L. Blades, 209 North Broadway, Third Assistant, Sixth ward, $480.
William Hanson, 603 North Washington street, fireman, Sixth ward, $210.
Ellen Jackson, 620 North Bond street, janitress, Fifth ward, $192.

FEMALE GRAMMAR SCHOOL No. 12.

Annie E. Porter, 2116 McCulloh street, Principal, Twelfth ward, $900.
Mary V. Wellham, 511 South Paca street, First Assistant, Sixteenth ward, $648.

Annie O. Konze, 611 Columbia avenue, Second Assistant, Sixteenth ward, $504.
Isabel Carr, 841 Columbia avenue, Third Assistant, Eighteenth ward, $480.
Sarah J. McFarland, 1522 Harlem avenue, Third Assistant, Nineteenth ward, $480.
Florence J. Nicholson, 1710 Hollins street, Third Assistant, Eighteenth ward, $480.
Mina K. Miller, 934 South Sharp street, Third Assistant, Sixteenth ward, $480.
May A. Burnett, 408 North Carey street, Third Assistant, Nineteenth ward, $480.
Abama G. P. Martin, 503 North Schroeder street, Third Assistant, Tenth ward, $480.
Helen Winternitz, 2135 McCulloh street, Third Assistant, Twelfth ward, $480.
William A. Trumbo, 630 West Lee street, fireman, Sixteenth ward, $180.
Catharine Wistling, 731 Hamburg street, janitrix, Eighteenth ward, $192.

FEMALE GRAMMAR SCHOOL No. 13.

Margaret A. Maddox, 101 North Fulton avenue, Principal, Nineteenth ward, $900.
Elizabeth Bowen, 816 E. Preston street, First Assistant, Eighth ward, $648.
Agnes V. Corcoran, 2103 North Calvert street, Second Assistant, Twenty-second ward, $504.
Barbara Shunck, 1711 Jefferson street, Third Assistant, Sixth ward, $480.
Irene Leonard, 1203 West Lanvale street, Third Assistant, Twentieth ward, $480.
Sarah Vansant, 519 North Schroeder street, Third Assistant, Sixteenth ward, $480.
Elizabeth Krieger, 134 Harford avenue, Third Assistant, Twenty-second ward, $480.
Susie L. Commons, 1126 East Baltimore street, Third Assistant, Fourth ward, $480.
Mrs. Bauer, 123 North Bond street, janitress, Third ward, $180.

## FEMALE GRAMMAR SCHOOL No. 15.

Florence Rutter, 918 North Arlington avenue, Principal, Twentieth ward, $900.

Phebe A. Goodridge, 1107 McCulloh street, First Assistant, Twelfth ward, $648.

Anna Stanley, 1303 West Lanvale street, Second Assistant, Twentieth ward, $504.

Sarah Lewis Gillman, 919 North Arlington avenue, Third Assistant, Twentieth ward, $480.

Mary E. Chickering, 1407 Edmondson avenue, Third Assistant, Nineteenth ward, $480.

May B. Bourne, Jessup, Anne Arundel county, Md., Third Assistant, $480.

Florence Barnes, 620 West Franklin street, Third Assistant, Eleventh ward, $480.

Isabel Pernelle Evans, 868 Park avenue, Third Assistant, Twelfth ward, $480.

Florence Carter, 1534 Eutaw Place, Third Assistant, Twelfth ward, $480.

Henrietta G. Baker, 1813 Edmondson avenue, Third Assistant, Nineteenth ward, $480.

Elizabeth Minnick, 821 West North avenue, Third Assistant, Twelfth ward, $480.

Jeannette T. Wiener, 755 West Fayette street, Third Assistant, Thirteenth ward, $480.

Lynne Rebekah Metcalfe, 35 East Twenty-first street, Third Assistant, Twenty-second ward, $480.

Margaret Bedford Wheatley, 641 North Carey street, Third Assistant, Nineteenth ward, $480.

Eda L. Browne, 1819 Edmondson avenue, Third Assistant, Nineteenth ward, $480.

Hannah Wheeler, 17 South Pulaski street, janitress, Eighteenth ward, $168.

Emma Eckels, 820 West Mulberry street, janitress, Tenth ward, $168.

Charles Harvey, 1841 West Lombard street, fireman, Fourteenth ward, $300.

## FEMALE GRAMMAR SCHOOL No. 16.

Fannie E. Pridham, 506 East Twenty-first street, Principal, Grammar, Twenty-second ward, $900.
Elizabeth Forrester, 2014 East Baltimore street, First Assistant, Grammar, Sixth ward, $648.
Annie Thursby, 115 South Collington avenue, Second Assistant, Grammar, First ward, $504.
Rose T. Heede, 617 South Patterson Park avenue, Assistant First Grade, Primary, First ward, $504.
Rebekah Aitken, 1228 West Lanvale street, Third Assistant, Grammar, Twentieth ward, $480.
Hattie Reifner, 1910 Gough street, Third Assistant, Primary, Second ward, $480.
Katharine Rose, 1911 Eastern avenue, Third Assistant, Primary, Second ward, $480.
Edith Price, 1829 Jefferson street, Third Assistant, Primary, Sixth ward, $480.
Alice Russell, 2124 Jefferson street, Third Assistant, Primary, Sixth ward, $480.
Dora Stutt, 2212 Gough street, Third Assistant, Primary, First ward, $480.
Ida Messersmith, 1309 Mulberry street, Third Assistant, Primary, Nineteenth ward, $480.
Elmer Cloman, 1327 Hull street, fireman, Seventeenth ward, $180.
Barbara Roberts, 1442 Cooksie street, janitress, Seventeenth ward, $204.

## FEMALE GRAMMAR SCHOOL No. 17.

Mary E. Burnitt, 116 North Eden street, Principal, Fourth ward, $900.
Annie M. Pulley, 1906 East Pratt street, First Assistant, Third ward, $648.
Nannie B. Ferrell, 1224 West Lanvale street, Second Assistant, Twentieth ward, $504.
Mamie I. Hancock, 1808 East Baltimore street, Third Assistant, Third ward, $480.
Cecilia C. Prince, 2318 East Baltimore street, Third Assistant, Sixth ward, $480.

Sarah A. Shaffer, 1828 Fairmount avenue Third Assistant, Third ward, $480.
Iva Pearl Revelle, 1729 East Lanvale street, Third Assistant, Seventh ward, $480.
Fannie A. Beckwith, 26 North Chester street, Third Assistant, Sixth ward, $480.
Virginia P. Hunt, 2126 East Lombard street, Assistant to Principal, First ward, $480.
Mrs. E. Wilkerson, janitrix, $192.

## FEMALE GRAMMAR SCHOOL No. 18.

Amanda Sappington, 946 Harlem avenue, Principal, Fourteenth ward, $900.
Mollie R. Hobbs, 823 North Fremont avenue, First Assistant, Twentieth ward, $648.
Kate Honeywell, 330 North Charles street, Second Assistant, Ninth ward, $504.
Eula Pollard, 1404 Argyle avenue, Third Assistant, Twentieth ward, $480.
Saidee McSherry, 1801 West Lanvale street, Third Assistant, Nineteenth ward, $480.
Bertha Warfield, 898 West Lombard street, Third Assistant, Thirteenth ward, $480.
F. Florence Burnett, 1012 North Arlington avenue, Third Assistant, Twentieth ward, $480.
Jennie Reizenstein, 410 North Carrollton avenue, Third Assistant, Nineteenth ward, $480.
Leona Hartke, 1222 Madison avenue, Third Assistant, Eleventh ward, $480.
A. Bird Kempton, 730 Dolphin street, Third Assistant, Twentieth ward, $480.
Louisa Trundle, 627 Kirby lane, janitress, Nineteenth ward, $180.
William T. Coale, 1708 West Lanvale street, fireman, Nineteenth ward, $330.

## FEMALE GRAMMAR SCHOOL No. 19.

Lydia A. Ennis, 919 McCulloh street, Principal, Eleventh ward, $900.
Emilia L. Brauns, 22 East Lanvale street, First Assistant, Eighth ward, $648.
Mary J. Crown, 508 Park avenue, Second Assistant, Eleventh ward, $504.
Lillian B. Reese, 2132 Oak street, Third Assistant, Twenty-second ward, $480.
Mary V. Monroe, 115 West Twenty-third street, Third Assistant, Twenty-second ward, $480.
Almira J. Gees, 2050 Linden avenue, Third Assistant, Twenty-first ward, $480.
Octavia A. Dallam, 307 Dolphin street, Third Assistant, Twelfth ward, $480.
Augusta F. Ditty, 226 West Lanvale street, Third Assistant, Twelfth ward, $480.
Edith E. Brown, 1915 Druid Hill avenue, Third Assistant, Twelfth ward, $480.
Florence Valiant, 2204 Oak street, Third Assistant, Twenty-second ward, $480.
Susie H. Hollstein, 1015 Harlem avenue, Third Assistant, Fourteenth ward, $480.
Mary R. Hess, 748 Reservoir street, Third Assistant, Twenty-first ward, $480.
Sarah Johnson, 1224 Rutter street, janitress, Twelfth ward, $180.
Joseph Pfisterer, 1407 Pennsylvania avenue, fireman, Twelfth ward, $720.

## FEMALE GRAMMAR SCHOOL No. 20.

Adlein S. Kenney, 1811 North Calvert street, Principal, Eighth ward, $900.
Mary L. Schoolfield, 127 West Lafayette avenue, First Assistant, Twelfth ward, $648.
Adelaide I. Nones, 1030 North Eden street, Second Assistant, Seventh ward, $504.
Elizabeth C. Kenney, 1002 East Preston street, Third Assistant, Seventh ward, $480.

Annie G. Fallon, 1221 Valley street, Third Assistant, Seventh ward, $480.
Mary A. Elliott, 2026 Mt. Royal Terrace, Third Assistant, Twenty-first ward, $480.
Celesta L. Diggs, Lake Montebello, Third Assistant, Twenty-second ward, $480.
Mary A. T. Bunworth, Ellicott City, Third Assistant, $480. Boards in the city part.
Kate Evans, 868 Park avenue, Third Assistant, Eleventh ward, $480.
Kate L. Guyton, 1305 North Central avenue, Third Assistant, Seventh ward, $480.
Marion L. Reddish, 1413 North Caroline street, Third Assistant, Seventh ward, $480.
Emma J. Storch, 1626 East Biddle street, Third Assistant, Seventh ward, $480.
Leonia H. de Katow, 1626 North Broadway, Third Assistant, Seventh ward, $480.
Jennie Eckel, 1716 North Broadway, Third Assistant, Seventh ward, $480.
Constance Rosensteel, 1119 Valley street, Third Assistant, Seventh ward, $480.
M. Louisa Armstrong, 1611 East Biddle street, Third Assistant, Seventh ward, $480.
M. Susie Hall, 1130 Homewood avenue, Third Assistant, Eighth ward, $480.
Edith V. Gordon, 1307 North Bond street, Third Assistant, Seventh ward, $480.
Bessie A. Hyde, 1100 East North avenue, Third Assistant, Twenty-second ward, $480.
Ellen Dougherty, 1632 Aisquith street, janitress, Eighth ward, $228.
Henry M. Schaffer, 1615 North Spring street, fireman, Seventh ward, $360.

## FEMALE GRAMMAR SCHOOL No. 21.

Sallie S. Cross, 706 North Catrollton avenue, Principal, Twentieth ward, $900.
Martha B. Fringer, 1418 Presstman street, First Assistant, Twentieth ward, $648.

M. Alice Smith, 1525 Park avenue, Second Assistant, Twelth ward, $504.
Georgia L. Hobbs, 825 North Fremont avenue, Third Assistant, Twentieth ward, $480.
Kate T. Grafflin, 1006 Mosher street, Third Assistant, Twentieth ward, $480.
Kate A. Lewis, 1512 West Lanvale street, Third Assistant, Twentieth ward, $480,
Belle Hines, 1619 East Preston street, Third Assistant, Fifth ward, $480.
Margaret K. Burnette, 1012 Arlington avenue, Third Assistant, Twentieth ward, $480.
Katie M. Rea, 834 Edmondson avenue, Third Assistant, Twentieth ward, $480.
Floribel Deems, 1116 Mosher street, Third Assistant, Twentieth ward, $480.
Maggie E. Welsh, 1326 Hollins street, Third Assistant, Nineteenth ward, $480.
Mrs. Christopher Myers, 1547 Newington place, janitress, Twentieth ward, $180.

## MALE PRIMARY SCHOOL No. 1.

Martha J. S. Richmond, 1402 Pennsylvania avenue, Principal, Twentieth ward, $696.
Carrie P. Woodward, 934 North Stricker street, Assistant, Nineteenth ward, $468.
Sallie Littlefield, 1004 Hopkins avenue, Assistant, Fourteenth ward, $504.
Nellie Hardie, 243 Preston street, Assistant, Eighth ward, $468.
Lizzie M. Backer, 518 McMechin street, Assistant, Twelfth ward, $468.
M. Virginia Hagerty, 1402 Pennsylvania avenue, Assistant, Twentieth ward, $468.
Cordelia J. Rollins, 513 North Stricker street, Assistant, Nineteenth ward, $468.
Blanche C. Gundersdorf, 926 Harlem avenue, Assistant, Fourteenth ward, $468.

John H. Winter, 858 West Pratt street, fireman, Thirteenth ward, $210.
Mary E. Rider, 502 West Biddle street, janitrix, Eleventh ward, $168.

## MALE PRIMARY SCHOOL No. 2.

Susie V. Fleury, 1405 Druid Hill avenue, Principal, Twelfth ward, $696.
Deborah A. Allyn, 126 South Broadway, Assistant, Third ward, $468.
Laura V. Tolson, 1816 North Calvert street, Assistant, First Grade, Eighth ward, $504.
Maggie E. McCaddin, 1833 North Caroline street, Assistant, Seventh ward, $468.
Annie L. Bramble, 2040 East Fairmount avenue, Assistant, Sixth ward, $468.
Meta E. Horstmeier, 1008 Stiles street, Assistant, Fourth ward, $468.
Mary A. Hoffman, 2021 East Fayette street, janitress, Sixth ward, $167.

## MALE PRIMARY SCHOOL No. 3.

Mary V. Sollers, 1512 East Baltimore street, Principal, Third ward, $696.
Eudora Von Hoxar, 741 East Preston street, Assistant, Eighth ward, $468.
Elizabeth M. Pierce, 1807 Maryland avenue, Assistant, Twentieth ward, $468.
Anna V. Hatter, 129 Aisquith street, Assistant, Fourth ward, $468.
Annie B. Ford, 140 Aisquith street, Assistant, Fourth ward, $468.
Lulu K. Eubank, York road, near Willow avenue, Assistant, $468.
Katherine G. Gallagher, 1713 Barclay street, Assistant, Eighth ward, $468.
M. Kate Gibson, 1723 Edmondson avenue, Assistant, Nineteenth ward, $468.

Elizabeth L. Murphy, 2107 Barclay street, Assistant, Twenty-second ward, $504.
Helen R. Tracy, 822 Aisquith street, Assistant, Fifth ward, $432.
M. Louise Taylor, 1521 East Biddle street, Assistant, Seventh ward, $432.
Mary Madden, 721 North Eden street, janitress, Sixth ward, $156.
Emma Madden, 1227 East Lexington street, janitress of branch, Fourth ward, $180.
Harry R. Palmer, 1128 Laurel street, fireman, Fourth ward, $120.

MALE PRIMARY SCHOOL No. 4.

Mary Fort, 2700 North Charles street, Principal, Twenty-second ward, $696.
Sophie W. Dietsch, 814 Fremont avenue, First Assistant, Nineteenth ward, $504.
Nellie M. Porteous, 839 South Paca street, Second Assistant, Sixteenth ward, $468.
Annie E. Howard, 928 Aisquith street, Second Assistant, Fifth ward, $468.
A. Gertrude Kaltenbach, 236 East Montgomery street, Second Assistant, Fifteenth ward, $468.
Sophia Ebert, 848 South Sharp street, Second Assistant, Fifteenth ward, $468,
Minnie Dietz, 223 Hanover street, Second Assistant, Fifteenth ward, $432
John G. Kipp, 126 West Lee street, fireman, Fifteenth ward, $360.
Mrs. Margaret Schenkel, 923 South Charles street, janitress, Fifteenth ward, $168.

MALE PRIMAY SCHOOL No. 5.

Margaret Sherwood, 1634 Linden avenue, Principal, Twelfth ward, $696.
Mary E. Gaunt, 1512 East Preston street, First Assistant, Seventh ward, $504.

Margaret E. Bristor, 402 North Exeter street, Assistant, Fifth ward, $468.
Mollie E. Coggins, 1506 North Broadway, Assistant, Seventh ward, $468.
Mary C. Dilmore, 3018 Elliott street, Assistant, First ward, $468.
Roberta E. Diggs, Lake Montebello, Assistant, Twenty-second ward, $468.
Anna J. Johnston, 2001 Guilford avenue, Assistant, Twenty-second ward, $468.
Anna Kavanaugh, 617 North Paca street, Assistant, Eleventh ward, $468.
Agnes R. Luckett, 526 E. Twentieth street, Assistant, Twenty-second ward, $468.
Florence Rosensteel, 1119 Valley street, Assistant, Seventh ward, $468.
Laura J. Smith, 1117 Valley street, Assistant, Seventh ward, $480.
Florence Thalheimer, 2333 Madison avenue, Assistant, Twenty-first ward, $468.
Robert Drane, 1802 E. Madison street, fireman, Seventh ward, $180.
Ellen Rawlings, 1008 Lamont avenue, janitress, Seventh ward, $192.

## MALE PRIMARY SCHOOL No. 6.

Annie M. Aburn, 1710 East Oliver street, Principal, Seventh ward, $696.
Florence Catherine Lowden, 2052 East Eager street, First Assistant, Sixth ward, $504
Margaret Mitchell, 2701 St. Paul street, Assistant, Twenty-second ward, $468.
Mannie Lee O'Bannon, 1028 North Calvert street, Assistant, Eighth ward, $468.
Sophia Herche, 35 North Caroline street, Assistant, Third ward, $468.
Rose Oppenheim, 517 Presstman street, Assistant, Twelfth ward, $468.

Sarah Blum, 119 North Broadway, Assistant, Third ward, $468.
Grace Caroline Fairbank, 1045 N. Broadway, Assistant, Seventh ward, $468.
Laura Virginia Langlotz, 1617 East Preston street, Assistant, Seventh ward, $432.
Grace Fountain Gage, 1512 Retreat street, Assistant, Twenty-first ward, $468.
Lucie Nathalia Heede, 617 South Patterson Park avenue, Assistant, First ward, $408.
Elizabeth Roberts, 412 South Ann street, janitress, Second ward, $204.

## MALE PRIMARY SCHOOL No. 7.

Josephine Evans, 1217 Harford avenue, Principal, Seventh ward, $696.
Annie R. C. James, 3029 West North avenue, Assistant, Twenty-first ward, $468.
Mary Rogan, 1748 Bank street, Assistant, Second ward, $468.
Josephine B. Kettlewell, 1247 North Broadway, Assistant, First Grade, Seventh ward, $504.
Mary A. Rowland, 1082 Granby street, Assistant, Fourth ward, $432.
Rudolph Coldenstroth, 1123 Granby street, janitor, Fourth ward, $132.

## MALE PRIMARY SCHOOL No. 8.

Sarah V. Mettee, 704 North Broadway, Principal, Fifth ward, $696.
Harriet E. Snyder, 1325 North Eden street, Assistant, First Grade, Seventh ward, $504.
Katharine A. Pritchett, 2516 North Charles street, Assistant, Twenty-second ward, $468.
Charlotte F. Beatty, 11 South Broadway, Assistant, Third ward, $468.
M. Theresa Larmour, 11 Milton avenue, Assistant, Sixth ward, $468.

Sarah E. O'Connell, 218 South Ann street, Assistant, Third ward, $468.
Katie Hunt, 508 North Stricker street, Assistant, Nineteenth ward, $468.
Josephine Freburger, 218 South Caroline street, janitress, Third ward, $168.

MALE PRIMARY SHOOL NO. 10.

Kate Wright, 526 South Paca street, Principal, Sixteenth ward, $696.
Ellen L. Ross, 1213 West Fayette street, Assistant, Nineteenth ward, $468.
Grace V. Sheckells, 1307 Hollins street, Assistant, Fourteenth ward, $468.
Fannie E. Warfield, 529 South Paca street, Assistant, Sixteenth ward, $504.
Hannnah M. Thurn, 930 Hollins street, janitress, Thirteenth ward, $132.

MALE PRIMARY SCHOOL No. 11.

Lizzie Buckley, 121 North Carrollton avenue, Principal, Fourteenth ward, $696.
Maria L. Bulluck, 805 North Gilmor street, Assistant, First Grade, Twentieth ward, $504.
Laura M. Mercer, 829 North Gilmor street, Assistant, Twentieth ward, $468.
Belle G. Smiley, 1200 Mosher street, Assistant, Twentieth ward, $468.
Margaret A. Rainey, 1420 West Fayette street, Assistant, Nineteenth ward, $468.
Nettie Matthews, 2200 Oak street, Assistant, Twenty-second ward, $468.
Nettie A. Craig, 611 North Carey street, Assistant, Nineteenth ward, $468.
Annie L. Brohawn, 1724 Harlem avenue, Assistant, Nineteenth ward, $468.
Mary J. Driscoll, 47 South Carrollton avenue, Assistant, Fourteenth ward, $468.

Mary C. Devan, 808 Mulberry street, Assistant, Tenth ward, $468.
Myra G. Fitzgerald, 713 North Fulton avenue, Assistant, Nineteenth ward, $468.
Florence L. Layman, 1131 North Carey street, Assistant, Twentieth ward, $468.
Elinore T. Burton, 1135 North Carey street, Assistant, Twentieth ward, $468.
Margaret C. Carnan, 1123 North Carey street, Assistant, Twentieth ward, $468.
Elizabeth B. Butler, 532 North Carrollton avenue, Assistant, Nineteenth ward, $468.
James E. Tabler, 1014 North Gilmor street, fireman, Nineteenth ward, $240.
Mrs. Schaar, 1529 North Stricker street, janitress, Twentieth ward, $208.

## MALE PRIMARY SCHOOL No. 12.

Olive Wright, 526 South Paca street, Principal, Sixteenth ward, $696.
Laura V. Rock, 1720 West Lombard street, Assistant, Fourteenth ward, $504.
Laura Bangs, 1408 Madison avenue, Assistant, Twelfth ward, $468.
L. Adelle Wellham, 511 South Paca street, Assistant, Sixteenth ward, $468.
Florence M. Addison, Heathbrook, Assistant, $468.
Emma J. Bryan, 310 North Paca street, Assistant, Tenth ward, $468.
Emma G. Byrd, 814 Harlem avenue, Assistant, Nineteenth ward, $468.
Bettye P. Winterson, 109 North Carey street, Assistant, Nineteenth ward, $432.
Lillian S. Rittenhouse, 1712 West Lafayette avenue, Assistant, Nineteenth ward, $468.
Emma Lurmann, 2010 Mt. Royal Terrace, Assistant, Twenty-second ward, $408.
Priscilla Hooper, 1022 South Paca street, janitress, Sixteenth ward, $252.

## MALE PRIMARY SCHOOL No. 13.

Bessie Pattison, 1825 Bolton street, Principal, Twelfth ward, $696.
Kate Slattery, 813 Aisquith street, Assistant, Fifth ward, $468.
Cassie Jones, 1342 North Eden street, Assistant, Seventh ward, $468.
Julia Weber, 2222 East Lombard street, Assistant, First Grade, First ward, $504.
Bertie Kennersley, 1624 Jefferson street, Assistant, Sixth ward, $468.
Flora Kirwan, 2219 East Lombard street, Assistant, First ward, $432.
Lottie Vain, 621 Bradford street, janitress, Sixth ward, $156.
Daniel Wheatly, 1740 Mulligan street, fireman, colored, Sixth ward, $180.

## MALE PRIMARY SCHOOL No. 14.

Clara Tucker, 1527 Park avenue Principal, Twelfth ward, $696.
Fannie K. Seegar, 1529 Park avenue, Assistant, Twelfth ward, $468.
Nannie R. Walker, 1511 Lanvale street, Assistant, Eighteenth ward, $468.
Bertha W. Tucker, 1519 John street, First Grade, Twefth ward, $504.
S. Lizzie Spicer, 1310 Madison avenue, Assistant, Twelfth ward, $468.
Meta G. Franklin, 2101 Druid Hill avenue, Assistant, Twelfth ward, $468.
Flora B. Brundige, 1323 Linden avenue, Assistant, Twelfth ward, $468.
Fannie L. Stevens, 1235 Myrtle avenue, Assistant, Twentieth ward, $468.
Sarah B. Lipscomb, 1730 Bolton street, Assistant, Twelfth ward, $432.

John Stewart, 1816 Division street, fireman, Twelfth ward, $150.
Elizabeth Chester, Dolphin street near John street, janitress, Twelfth ward, $168.

## MALE PRIMARY SCHOOL No. 15.

Hannah M. Arthur, 1622 West Lexington street, Principal, Nineteenth ward, $696.
Rebecca M. Ward, 318 North Mount street, Assistant, Nineteenth ward, $468.
Theresa A. Maguire, 1525 West Lexington street, Assistant, Nineteenth ward, $468.
Olivia King, 609 North Carey street, Assistant, First Grade, Nineteenth ward, $504.
Mary Adele Hilberg, 1531 West Fayette street, Assistant, Nineteenth ward, $468.
Annie R. Tull, 728 Lennox street, Assistant, Twenty-first ward, $468.
Jennie R. Sheppard, 1415 West Franklin street, Assistant, Nineteenth ward, $468.
Jessie A. Forsythe, 1129 North Mount street, Assistant, Nineteenth ward, $468.
Cecile I. Rainey, 1420 West Fayette street, Assistant, Nineteenth ward, $468.
Margaret S. Bankard, 37 South Stricker street, Assistant, Fourteenth ward, $432.
Kate Angelmier, 17 North Carrollton avenue, janitress, Fourteenth ward, $168.

## MALE PRIMARY SCHOOL No. 16.

Annie E. Ditman, 1325 North Eden street, Principal, Seventh ward, $696.
Mary Hennessy, 1018 Clifton place, Assistant, Eighth ward, $468.
Julia E. Tinnan, 832 Harford avenue, Assistant, Eighth ward, $468.
Elizabeth O. Wise, 1217 East North avenue, Assistant, Eighth ward, $468.

Clara B. Coggins, 1321 North Caroline street, Assistant, Seventh ward, $468.
Mary A. Kerley, 1012 Forrest place, Assistant, Eighth Ward, $504.
May G. Hoen, 832 E. Preston street, Assistant, Eighth ward, $432.
Kate V. Walters, 941 Ensor street, janitress, Fifth ward, $168.
George Dawson, 935 East Monument street, fireman, Fifth ward, $150.

## MALE PRIMARY SCHOOL No. 17.

Delmar Neal, 2024 Druid Hill avenue, Principal, Twelfth ward, $696.
Emma Schillinger, 423 Hanover street, Assistant, Fifteenth ward, $468.
Alverder McIlhenny, 1212 Madison avenue, Assistant, First Grade, Twelfth ward, $504.
Elizabeth Lamon, 856 West North avenue, Assistant, Twenty-first ward, $468.
Jennie Pennington, 1519 East North avenue, Assistant, Seventh ward, $468.
Alice Daugherty, 2028 Druid Hill avenue, Assistant, Twelfth ward, $468.
Julia Brownold, 1924 McCulloh street, Assistant, Twelfth ward, $468.
May Conlon, 518 Carrollton avenue, Assistant, Nineteenth ward, $432.
Lillie Waters, 1025 Light street, janitress, Seventeenth ward, $156.

## MALE PRIMARY SCHOOL No. 18.

Annie N. Frederick, 1818 Madison avenue, Principal, Twelfth ward, $696.
Annie E. Willson, 1517 Mt. Royal avenue, Assistant, Twelfth ward, $468.
C. Virginia Albaugh, 1018 West Lanvale street, Assistant, First Grade, Twentieth ward, $504.

Minnie E. Rhoderick, 1218 West Lanvale street, Assistant, Twentieth ward, $468.
Adelaide A. Glascock, 2102 Druid Hill avenue, Assistant, Twelfth ward, $468.
Mary L. Tyler, Roland Park, Assistant, Twenty-first ward, $468.
Henrietta Ross, 1109 Patterson avenue, janitress, Twentieth ward, $144.

MALE PRIMARY SCHOOL No. 19.

Josie T. Sheehan, 414 North Bond street, Principal, Sixth ward, $696.
Mary A. Severson, 1211 Bolton street, Assistant, Twelfth ward, $468.
Bessie G. Farrow, 602 North Charles street, Assistant, Ninth ward, $468.
E. Lyle Kerr, 2002 Mt. Royal Terrace, Assistant, Twenty-first ward, $504.
Margaret French, 110 Dolphin street, janitress, Twelfth ward, $132.

MALE PRIMARY SCHOOL No. 20.

May E. Saunders, 219 East Preston street, Principal, Eighth ward, $696.
Lottie M. Klueber, 1745 East Lanvale street, Assistant, Seventh ward, $468.
Maggie MacLeary, 1304 Aisquith street, Assistant, Seventh ward, $468.
Eleanor Sultzer, 415 East Lafayette avenue, Assistant, First Grade, Eighth ward, $504.
Roberta C. Nicolls, 1238 North Broadway, Assistant, Seventh ward, $468.
Annie M. Logan, 1709 East Lanvale street, Assistant, Seventh ward, $468.
Virginia M. Cashmeyer, 2456 Belmont avenue, Assistant, Twenty-second ward, $468.
Annie C. Jamison, 920 North Stricker street, Assistant, Twentieth ward, $468.

Alice C. Dohme, 1527 North Caroline street, Assistant, Seventh ward, $468.
A. Elizabeth Cobb, 1302 Linden avenue, Assistant, Twelfth ward, $468.
Nannie L. Nicols, 303 West Monument street, Assistant, Eleventh ward, $468.
Virginia L. Laferty, 1706 North Caroline street, Assistant, Seventh ward, $468.
Edith Childs, 1406 East Biddle street, Assistant, Seventh ward, $468.
Fannie McGrane, 1317 East Lanvale street, Assistant, Eighth ward, $468.
Henrietta M. Smith, 1108 Bolton street, Assistant, Twelfth ward, $468.
Annie E. C. Kegan, 2216 Gough street, Assistant, First ward, $468.
Maud M. Billmeyer, 1708 North Broadway, Assistant, Seventh ward, $468.
Kate S. Smith, 1117 Valley street, Assistant, Seventh ward, $432.
Rozella E. Johns, 1307 North Central avenue, Assistant, Seventh ward, $432.
Estelle Warfield, 412 North Carrollton avenue, Assistant, Nineteenth ward, $432.
Lida V. Kirk, 1422 Argyle avenue, Temporary Assistant, Twentieth ward, $408.
Mary A. Montgomery, 212 South Exeter street, Assistant, Second ward, $468.
Mrs. Mary Street, 1020 Stirling street, janitress, Seventh ward, $264.

## MALE PRIMARY SCHOOL No. 21.

Virginia B. McNelly, 1012 North Arlington avenue, Principal, Twentieth ward, $696.
Mary Nicols, 30 East Lanvale street, Assistant, Eighth ward, $468.
Ella T. Floyd, 535 Robert street, Assistant, Twelfth ward, $468.

J. Florence Ward, 818 North Calhoun street, Assistant, Twentieth ward, $468.
Annie B. Ryan, 1704 Bolton street, Assistant, First Grade, Twelfth ward, $504.
Annie M. Eigelberner, 1305 Myrtle avenue, Assistant, Twentieth ward, $468.
Emma S. Miller, 307 Fryer avenue, Roland Park, Assistant, county, $468.
Ada V. Bond, 620 West Lafayette avenue, Assistant, Twentieth ward, $468.
Christina Goldeisen, 2311 McCulloh street, janitress, Twenty-first ward, $198.

MALE PRIMARY SCHOOL No. 22.

Ella S. Moffett, Glyndon, Principal, county, $696.
Emma Craig, York road and Arlington avenue, Assistant, county, $504.
Fannie Nicholson, 1705 Hollins street, Assistant, Fourteenth ward, $468.
Kate C. Kroeger, 100 South Schroeder street, Assistant, Fourteenth ward, $468.
Jessie Du Val, 901 North avenue, Assistant, Fifteenth ward, $468.
Lilian Kelley, 135 South Poppleton street, Assistant, Thirteenth ward, $468.
Matilda Harman, 672 Columbia avenue, Assistant, Sixteenth ward, $468.
Ida Hahn, 1108 Russell street, Assistant, Eighteenth ward, $432.
Eliza J. Smoot, 1140 Carroll street, janitress, Eighteenth ward, $168.

MALE PRIMARY SCHOOL No. 23.

Mary L. Masewell, 1017 North Caroline street, Principal, Seventh ward, $696.
Elizabeth V. Abey, 2121 East Baltimore street, Assistant, First ward, $468.

Florence C. Stuart, 142 Wilson street, Assistant, Twelfth ward, $468.
Juliet Le Grand, Assistant, $468.
R. Kate Williams, 2221 Gough street, Assistant, Beginners Grade, First ward, $504.
Carrie E. Baker, 1304 West Lanvale street, Assistant, Twentieth ward, $468.
Mary E. Degenhard, 227 South Collington avenue, Assistant, First ward, $468.
Alberta F. Reid, 2221 Bolton avenue, Assistant, Twenty-first ward, $468.
Minnie A. Brusstar, 220 South Eden street, Assistant, Fourth ward, $432.
Michael Strobel, 1824 E. Lombard street, fireman, Fourth ward, $120.
Annie Irwin, 319 South Wolfe street, janitress, Second ward, $168.

## MALE PRIMARY SCHOOL No. 24.

Laura Sherwood, 220 South Chester street, Principal, First ward, $696.
Lillie Hubbard, 426 East Twenty-second street, Assistant, Twenty-second ward, $468.
Anna Ehrman, 1901 East Pratt street, Assistant, Second ward, $468.
Cecilia Langan, 240 Albemarle street, Assistant, Second ward, $468.
Mary N. Allison, 1712 Harlem avenue, Assistant, Nineteenth ward, $468.
Mary H. Stevens, 301 South Chester street, Assistant, First ward, $504.
Mary F. Martin, 953 Madison avenue, Assistant, Eleventh ward, $468.
Nellie V. Ashcom, 1517 West Lexington street, Assistant, Nineteenth ward, $468.
Ellen Nicoll, janitress, $156.
Thomas H. Webb, fireman, $240.

## MALE PRIMARY SCHOOL No. 25.

Margaret J. Sutherland, 140 South Ann street, Principal, Third ward, $696.
Mollie L. McShane, 115 South Chester street, First Assistant, First ward, $504.
Sallie Brown, 406 South Patterson Park avenue, Second Assistant, First ward, $468.
M. Ella Bump, 118 South Chester street, Second Assistant, First ward, $468.
Mamie O. Taylor, 2237 East Baltimore street, Second Assistant, First ward, $468.
Florence Daiger, 1512 Mt. Royal avenue, Second Assistant, Twelfth ward, $468.
M. Rosa Brownback, 214 South Chester street, Second Assistant, First ward, $468.
M. Grace Bartholow, 445 East Twenty-fifth street, Second Assistant, Twenty-second ward, $468.
Bessie C. Hanna, 1739 East Baltimore street, Second Assistant, Third ward, $432.
Maude O. McLellan, 209 South Collington avenue, Second Assistant, First ward, $432.
Sophia Bauers, 226 North Bond street, janitress, Third ward, $180.
Taylor Evans, 1600 Aliceanna street, fireman, Second ward, $240.

## MALE PRIMARY SCHOOL No. 26.

Josephine Hankey, 808 E. Preston street, Phincipal, Eighth Ward, $696.
Fannie Benter, 1932 McElderry street, Teacher, Sixth Ward, $504.
Lily M. Rusk, 1737 Harford avenue, Teacher, Seventh Ward, $468.
Cora E. Frey, 1405 E. Biddle street, Teacher, Seventh Ward, $468.
Barbara Vavrina, 800 N. Washington street, Teacher, Sixth Ward, $468.

Emily Vickerey, 1811 Orleans street, Janitress, Sixth Ward, $132; $42 for fires.

MALE PRIMARY SCHOOL No. 27.

Kate MacIntosh, 302 N. Broadway, Principal, Sixth Ward, $696.

Clemena Robinson, 513 N. Carrollton avenue, Teacher, Fourteenth Ward, $468.

Elizabeth Connolly, 1035 Harford avenue, Teacher, Seventh Ward, $468.

Nellie S. Hooper, 1342 N. Eden street, Teacher, Seventh Ward, $468.

Lillie Cranmer, 2029 E. Pratt street, Teacher, First Ward, $468.

Clara V. Getzendanner, 2007 Guilford avenue, Teacher, Twenty-second Ward, $468.

Mamie E. Grote, 1805 N. Caroline street, Teacher of Beginners, Seventh Ward, $504.

Daisy Oliver, 2129 E. Lombard street, Teacher, First Ward, $468.

Bessie A. Turner, 231 S. Collington avenue, Teacher, First Ward, $468.

Mary Smith, 2033 E. Fayette street, Janitress, Sixth Ward, $201.50. During seven months of the year, which includes the time in which fires are made, the janitress receives $19.50 each month; five months at $13 each.

MALE PRIMARY SCHOOL No. 28.

Sarah McDevitt, 325 E. Twentieth street, Principal, Twenty-second Ward, $696.

Katie E. Sanders, 1507 N. Broadway, Teacher, Seventh Ward, $504.

Henrietta Reitz, 119 E. Montgomery street, Teacher, Fifteenth Ward, $468.

Teresa Carroll, 725 Dolphin street, Teacher, Twentieth Ward, $468.
Julia Madden, 128 N. Broadway, Teacher, Third Ward, $468.
Agnes Onion, 1236 Ashland avenue, Teacher, Seventh Ward, $468.
Eleanora Duke, 1613 W. Franklin street, Teacher, Nineteenth Ward, $468.
Clara Waidner, 802 Sharp street, Teacher, Fifteenth Ward, $432.
A. Lillian Marchant, Fairmount avenue and Castle, Temporary, Sixth Ward, $408.
Annie Lawler, 9 W. West street, Janitress, Seventeenth Ward, $144; $36.75 for fires.

MALE PRIMARY SCHOOL No. 29.

Carrie A. Drought, 127 W. Twenty-second street, Principal, Twenty-second Ward, $696.
Clara A. Evans, 124 E. Montgomery street, Teacher, Seventeenth Ward, $468.
Alverda Elzey, 1462 William street, Teacher, Seventeenth Ward, $468.
Helen Stromberg, 2339 Madison avenue, Teacher, Twenty-first Ward, $468.
Catherine Fitzgerald, 1107 Mosher street, Teacher, Twentieth Ward, $504.
Luther Snyder, 123 W. Henrietta street, Fireman, Sixteenth Ward, $180.
Sarah Stone, 106 Hamburg street, Janitress, Fifteenth Ward, $156; $5.25 for fires.

MALE PRIMARY SCHOOL No. 30.

Laura A. Yeatman, 634 N. Carrollton avenue, Principal, Nineteenth Ward, $696.

Olivia S. Hampson, 2001 Druid Hill avenue, Teacher, Twelfth Ward, $504.

Florence Field, 1900 W. Fayette street, Floating Teacher, Nineteenth Ward, $468.

Mary M. Quinn, 1529 W. Lombard street, Teacher, Fourteenth Ward, $468.

Clara E. Hearn, 1727 W. Lombard street, Teacher, Fourteenth Ward, $468.

Nettie E. Malambre, 1721 Harlem avenue, Teacher, Nineteenth Ward, $468.

Katharine C. Spencer, 14 E. Twenty-fourth street, Teacher, Twenty-second Ward, $468.

Harriet L. Hopkins, 1007 Madison avenue, Teacher, Twelfth Ward, $468.

Annie L. Black, 1718 Hollins street, Teacher, Eighteenth Ward, $468.

Annie S. Hart, 112 W. Twenty-second street, Teacher, Twenty-second Ward, $432.

Anna E. Brown, 1725 Edmondson avenue, Teacher, Nineteenth Ward, $468.

Lilian W. Duval, 1610 W. Lexington street, Teacher, Nineteenth Ward, $468.

Julia C. Griffith, 916 N. Arlington avenue, Teacher, Nineteenth Ward, $432.

A. Blanche Kelly, 707 N. Carrollton avenue, Teacher, Fourteenth Ward, $468.

Margaret Dolan, 1821 Frederick avenue, Janitress, Fourteenth Ward, $156; $5.25 for fires.

John H. Schafer, 1733 McHenry street, Fireman, Eighteenth Ward, $360.

## MALE PRIMARY SCHOOL No. 31.

Mary E. Ely, 1017 Edmondson avenue, Principal, Fourteenth Ward, $696.

Fannie Kopp, 1110 N. Fulton avenue, Teacher, Nineteenth Ward, $504.

Mamie Stromberg, 2339 Madison avenue, Teacher, Twenty-first Ward, $468.

May Snyder, 1332 N. Stricker street, Teacher, Nineteenth Ward, $468.

Anna Bond, 1032 N. Fulton avenue, Teacher, Nineteenth Ward, $468.

Elizabeth Bennett, 242 N. Arlington avenue, Janitress, Fourteenth Ward, $156.

Gustave Ford, 1822 W. Lombard street, Fireman, Fourteenth Ward, $180.

## MALE PRIMARY SCHOOL No. 32.

S. Emory Clarke, 1135 Park avenue, Principal, Twelfth Ward, $696.

Katie E. Wilen, 2418 N. Charles street, Teacher, Twenty-second Ward, $468.

Maggie A. Carroll, 826 Harford avenue, Teacher, Eighth Ward, $468.

Elizabeth A. Smyth, 237 W. Lafayette avenue, Alphabet Teacher, Twelfth Ward, $504.

Elizabeth Malooley, 234 Albemarle street, Teacher, Second Ward, $468.

Helen D. Millar, 409 E. Lanvale street, Teacher, Eighth Ward, $468.

Eliza S. McDevitt, 322 E. Lanvale street, Teacher, Eighth Ward, $468.

R. Jennie Gilmour, 912 N. Calvert street, Teacher, Eleventh Ward, $432.

Isabel O. Louis, 737 W. North avenue, Teacher, Twelfth Ward, $468.

Emma C. Norris, 402 Girard avenue, Janitress, Eighth Ward, $216.

John Connolly, 1035 Harford avenue, Fireman, Seventh Ward, $240; $3.50 for fires.

MALE PRIMARY SCHOOL No. 33.

A. D. Banks, 602 Lenox street, Principal, Twenty-first Ward, $696.

Missouri E. Baker, 216 E. Montgomery street, Assistant First Grade, Fifteenth Ward, $504.

Jennie McGaw, 602 Lenox street, Assistant, Twenty-first Ward, $468.

Mamie Williams, 840 Harlem avenue, Assistant, Twentieth Ward, $468.

Edith Stiefel, 1830 Bolton street, Assistant, Twelfth Ward, $468.

Malvina B. Pearson, 1408½ Madison avenue, Assistant, Twelfth Ward, $468.

Lida Tall, 1814 N. Charles street, Assistant, Eighth Ward, $468.

Helen G. Patton, 843 Ducatel street, Assistant, Twenty-first Ward, $468.

J. Pauline Wernig, 1364 N. Stricker street, Assistant, Twentieth Ward, $468.

Nellie R. Kirwan, 2038 Druid Hill avenue, Assistant, Twelfth Ward, $468.

Joseph B. Conaway, 6 W. Fort avenue, Fireman, Seventeenth Ward, $210.

Mrs. Manion, 1418 Battery avenue, Janitress, Seventeenth Ward, $156.

MALE PRIMARY SCHOOL No. 34.

M. Emma Ware, 1815 W. Mulberry street, Principal, Nineteenth Ward, $696.

Gertrude Burford, 1804 W. Fayette street, Assistant First Grade, Nineteenth Ward, $504.

Maggie Waters, 926 S. Paca street, Assistant Second Grade, Sixteenth Ward, $468.

Lillian Heddrick, 1935 Wilkens avenue, Assistant Third Grade, Eighteenth Ward, $468.

Bessie Johnson, 621 Columbia avenue, Assistant Third Grade, Sixteenth Ward, $432.

Eunice Sibley, 1425 W. Lanvale street, Assistant Third Grade, Twentieth Ward, $468.

John Wasmuth, 131 W. Hamburg street, Fireman, Sixteenth Ward, $540.

Catherine Riely, 2031 Hollins street, Janitress, Eighteenth Ward, $156.

MALE PRIMARY SCHOLL No. 35.

Tillie Kahn, 2203 Maple avenue, Principal, Twenty-first Ward, $696.

Emma E. Parsons, York road and Oakland avenue, Assistant, $504.

Ella M. Madden, 128 N. Broadway, Assistant, Third Ward, $468.

Marjorie Harley, 2018 Linden avenue, Assistant, Twenty-first Ward, $468.

Rose Cassidy, 123 E. Fort avenue, Assistant, Seventeenth Ward, $468.

Mabel Phillips, 110 E. Montgomery street, Assistant, Fifteenth Ward, $432.

Elizabeth Ross, 541 W. Mosher street, Assistant, Twelfth Ward, $468.

Mary McNeal, 37 W. West street, Janitress, Seventeenth Ward, $156; $5.25 for fires.

James Sank, 1926 Hanover street, Fireman, Seventeenth Ward, $240.

MALE PRIMARY SCHOOL No. 36.

Kate R. Sinclair, 13 S. Chester street, Principal, First Ward, $696.

Anna S. Abbott, 1823 Fairmount avenue, Assistant First Grade, Third Ward, $504.

Sarah Murphy, 1512 E. Baltimore street, Assistant, Third Ward, $468.

Laura V. Ehrman, 2019 E. Pratt street, Assistant, First Ward, $468.

Minnie Tinker, 1740 E. Baltimore street, Assistant, Third Ward, $432.

Ella Lynch, 2115 Orleans street, Janitress, Sixth Ward, $144; $31.50 for fires.

MALE PRIMARY SCHOOL No. 37.

Isabella F. Bowen, 816 E. Preston street, Principal, Eighth Ward, $696.

F. May Sagle, 1142 E. North avenue, Assistant First Grade, Twenty-second Ward, $504.

Katherine J. Carroll, 1232 Ashland avenue, Assistant, Seventh Ward, $468.

Pauline A. Sellens, 1311 E. Biddle street, Assistant, Seventh Ward, $432.

Elizabeth V. Theil, 1301 Patterson Park avenue, Assistant, Sixth Ward, $432.

Amicie Brun, 18 E. Lanvale street, Assistant, Eighth Ward, $468.

Jas. I. Carroll, 2237 Cleveland Place, Fireman, Sixth Ward, $180.

Ida E. Ford, 936 N. Chester street, Janitress, Sixth Ward, $156; $5.25 for fires.

MALE PRIMARY SCHOOL No. 38.

Mary T. Walsh, 521 S. Chester street, Principal, Second Ward, $696.

Helen M. Shaffer, 1600 N. Caroline street, First Assistant, Seventh Ward, $504.

E. Fannie Thomas, 2040 Gough street, Second Assistant, First Ward, $468.

Mary A. Miller, 436 E. Lafayette avenue, Third Assistant, Eighth Ward, $468.

Mary A. Hancock, 1514 E. Pratt street, Fourth Assistant, Third Ward, $468.

Elizabeth R. Kelly, 3025 Elliott street, Fifth Assistant, First Ward, $468.

Minnie Kimmerle, 618 Montford avenue, Sixth Assistant, First Ward, $468.

Maggie Callahan, 1300 N. Caroline street, Seventh Assistant, Seventh Ward, $468.

Mary Rafferty, 2527 Canton avenue, Janitress, First Ward, $252. From October to May the janitress receives $13.25 extra for fires.

MALE PRIMARY SCHOOL No. 39.

Laura A. Edwards, 1505 Madison avenue, Principal, Twelfth Ward, $696.

Ida Rosenfeld, 2305 Madison avenue, Assistant, Twenty-first Ward, $432.

Bessie E. Kleibacker, 827 N. Fremont avenue, Assistant, Twentieth Ward, $432.

Ida E. Corner, 1534 Linden avenue, Assistant, Twelfth Ward, $468.

Emma F. Grafflin, 1006 Mosher street, Assistant First Grade, Twentieth Ward, $504.

William M. Spencer, 1927 White street, Fireman, Nineteenth Ward, $120.

Ida Finks, 1376 N. Calhoun street, Janitress, colored, Twentieth Ward, $156; $5.25 for fires.

FEMALE PRIMARY SCHOOL No. 1.

Elizabeth D. Kirk, 1529 Eutaw Place, Principal, Twelfth Ward, $696.

Mary F. Walsh, 1039 W. Hopkins avenue, Assistant, Fourteenth Ward, $468.

Annie E. Duvall, 614 W. Mulberry street, Assistant, Tenth Ward, $468.

Valentina A. Miller, 1528 W. Lexington street, Assistant, Nineteenth Ward, $468.

Louise L. Fickensehn, 1106 N. Eutaw street, Assistant, Twelfth Ward, $504.

Carrie M. Cooper, 871 W. Fayette street, Assistant, Thirteenth Ward, $468.

Margaret S. Legg, 1423 John street, Assistant, Twelfth Ward, $432.

Helen H. Purson, 1505 Bolton street, Assistant, Twelfth Ward, $432.

Mary Brown, 625 W. Mulberry street, Janitress, Tenth Ward, $210; $8.75 for fires.

Frederic Laib, 227 N. Schroeder street, Fireman, Thirteenth Ward, $240.

FEMALE PRIMARY SCHOOL No. 2.

Annie E. McBee, 1215 N. Eden street, Principal, Seventh Ward, $696.

Mary E. Bryarly, 806 E. Preston street, Assistant, Eighth Ward, $468.

Jennie M. Kelly, 1206 Jackson street, Assistant First Grade, Fourth Ward, $504.

Sophie F. Mitchell, 1813 E. Baltimore street, Assistant, Third Ward, $468.

Mary E. Wilcox, 602 E. Biddle street, Assistant, Eighth Ward, $468.

Margaret A. Madison, 1739 E. Pratt street, Assistant, Third Ward, $468.

Emma E. Hesse, 617 N. Eden street, Assistant, Fifth Ward, $432.

Amy E. Sapp, 16 N. Caroline street, Assistant, Fourth Ward, $432.

Margaret A. Carle, 132 S. High street, Janitress, Fourth Ward, $156; $36.75 for fires.

FEMALE PRIMARY SCHOOL No. 3.

Anna M. German, 306 N. Broadway, Principal, Sixth Ward, $696.

Katharine Roney, 922 Granby street, Assistant to Principal, Fourth Ward, $432.

Emma V. Saums, 2213 Bolton avenue, Assistant Third Grade, Twenty-first Ward, $468.

Ella A. Gable, 1105 E. Baltimore street, Assistant Third Grade, Fourth Ward, $468.

Lillian S. Mitchell, 1519 N. Bond street, Assistant Second Grade, Seventh Ward, $468.

Emma W. Huber, 1300 E. Fayette street, Assistant Second Grade, Fourth Ward, $468.

Flora W. Rosenthal, 410 Laurens street, Assistant Second Grade, Twelfth Ward, $468.

Pauline Gruss, 1639 Ashland avenue, First Advance Grade, Seventh Ward, $468.

Margaret Otto, 2308 N. Calvert street, First Advance Grade, Twenty-second Ward, $432.

Mary C. Aburn, 1706 E. Chase street, First Beginners, Seventh Ward, $504.

Nellie G. Shutze, 400 Colvin street, First Beginners, Fifth Ward, $432.

Ada V. Vickers, 1541 N. Caroline street, First Beginners, Seventh Ward, $432.

Sadie R. Thomas, 1630 McElderry street, First Beginners, Fifth Ward, $432.

Bridget Ryall, 412 S. Central avenue, Janitress, Fourth Ward, $156; $7 for fires.
Harry R. Palmer, 1128 Laurel street, Fireman, Fourth Ward, $120.

FEMALE PRIMARY SCHOOL No. 4.

Lena Saulsbury, 521 Hanover street, Principal, Fifteenth Ward, $696.
Ella C. Spedden, 2306 N. Calvert street, First Assistant, Twenty-second Ward, $504.
Katie L. Wynn, 633 E. Biddle street, Second Assistant, Eighth Ward, $468.
Katie Katz, 1415 Linden avenue, Second Assistant, Twelfth Ward, $468.
Stella I. Clifton, 629 N. Paca street, Second Assistant, Eleventh Ward, $468.
Amelia F. Hess, 129 W. Hill street, Second Assistant, Fifteenth Ward, $468.
Mary L. Read, 303 E. Lafayette avenue, Assistant, $408.
Alice McIntire, 1323 York road, Second Assistant, Twenty-second Ward, $468.
John G. Kipp, 126 W. Lee street, Fireman, Fifteenth Ward, $360.
Sarah L. Brown, 1006 Riverside avenue, Janitress, Seventeenth Ward, $168.

FEMALE PRIMARY SCHOOL No. 5.

Mary A. Foley, 1501 N. Caroline street, Principal, Seventh Ward, $696.
Fannie V. King, 9 Glen avenue, Govanstown, Assistant First Grade, Baltimore County, $504.
Laura Taylor, 1325 N. Caroline street, Assistant, Seventh Ward, $468.
Mary E. Gaston, 1765 E. North avenue, Assistant, Seventh Ward, $468.

Ida M. Burke, 824 E. Preston street, Assistant, Eighth Ward, $468.

Rosa C. Woolford, 1826 Linden avenue, Assistant, Twelfth Ward, $468.

Alice V. Burnham, 1231 N. Caroline street, Assistant, Seventh Ward, $468.

Emma E. Leilich, Walbrook avenue, Walbrook, Assistant, Twenty-first Ward, $468.

Jennie Albert, 954 N. Gay street, Assistant, Seventh Ward, $468.

F. Maud Hazeltine, 1323 Argyle avenue, Assistant, Twelfth Ward, $468.

Elizabeth L. Larkin, 747 E. Preston street, Assistant, Eighth Ward, $468.

Julia L. Miller, 1017 N. Caroline street, Assistant, Seventh Ward, $468.

Elizabeth Wright, 1427 Aisquith street, Assistant, Eighth Ward, $432.

Mary Donahue, 308 S. Washington street, Janitress, First Ward, $192.

Robert Drane, 1812 E. Madison street, Fireman, Seventh Ward, $180.

## FEMALE PRIMARY SCHOOL No. 6.

Elizabeth C. Thompson, 2003 Linden avenue, Principal, Twenty-first Ward, $696.

Frances I. Cralle, 11 S. Collington avenue, Assistant First Grade, First Ward, $504.

Elizabeth E. Willis, 1916 E. Baltimore street, Assistant, Third Ward, $468.

Etta Bevans, 28 N. Chester street, Assistant, Sixth Ward, $468.

Lily B. E. T. Langsdale, 303 S. Bond street, Assistant, Third Ward, $468.

Ridie M. Newton, 2815 W. North avenue, Assistant, Twenty-first Ward, $468.
Maggie Swain, 44 S. Bond street, Assistant, Third Ward, $468.
Ida G. Soran, 2434 E. Baltimore street, Assistant, Sixth Ward, $468.
Mary Buchanan, 112 Jackson Place, Assistant, Third Ward, $468.
Elizabeth W. Poetter, 2122 Eastern avenue, Assistant, First Ward, $432.
Margaret H. Oakes, 1735 E. Baltimore street, Assistant, Third Ward, $432.
Elizabeth Maeser, 416 S. Ann street, Janitress, Second Ward, $292.50; $52.50 for fires.

## FEMALE PRIMARY SCHOOL No. 7.

Amanda Harker, 422 N. Broadway, Principal, Sixth Ward, $696.
Fannie Eccles, 346 E. Twenty-second street, Assistant, Twenty-second Ward, $504.
Lillie E. Johnson, 420 N. Bond street, Assistant, Sixth Ward, $468.
Mary E. Roney, 922 Granby street, Assistant, Fourth Ward, $468.
Ione O. Cook, 209 E. Lanvale street, Assistant, Eighth Ward, $468.
Eleanor J. South, 6 Montford avenue, Assistant, Sixth Ward, $468.
Rudolph Coldenstroth, 1123 Granby street, Janitor, Fourth Ward, $144; $35 for fires.

## FEMALE PRIMARY SCHOOL No. 8.

Georgia A. Duvall, Athol avenue, near Frederick road, Principal, Baltimore County, $696.

Ida P. Mettee, 704 N. Broadway, Assistant, Fifth Ward, $468.

Lily Bateman, 1716 E. Madison street, Assistant First Grade, Seventh Ward, $504.

Carrie Row, 227 S. Broadway, Assistant, Third Ward, $468.

Rebie Parks, 35 S. Washington street, Assistant, Third Ward, $468.

Annie Bandel, 1532 E. Pratt street, Janitress, Third Ward, $168; $52.50 for fires.

FEMALE PRIMARY SCHOOL No. 10.

Annie D. Lieutand, 1536 W. Lexington street, Principal, Nineteenth Ward, $696.

Carrie M. Sumwalt, 121 W. Twenty-fourth street, Assistant First Grade, Twenty-second Ward, $504.

Lidie L. Thomason, 1030 W. Fayette street, Assistant, Fourteenth Ward, $432.

Grace I. Fry, 1535 Division street, Assistant, Twelfth Ward, $432.

Katherine E. Kelley, 135 S. Poppleton street, Assistant, Thirteenth Ward, $408.

Hannah Thurn, 930 Hollins street, Janitress, Thirteenth Ward, $132; $31.50 for fires.

FEMALE PRIMARY SCHOOL No. 11.

M. Kate Siemering, 1303 N. Stricker street, Principal, Twentieth Ward, $696.

Ruth Towson, 1630 Madison avenue, Assistant, Twelfth Ward, $504.

Julia J. Hayes, 925 N. Stricker street, Assistant, Nineteenth Ward, $468.

Bessie Wright, 915 N. Fulton avenue, Assistant, Nineteenth Ward, $468.

Belle Biggs, 737 N. Fulton avenue, Assistant, Twentieth Ward, $468.

Kath. A. Dietz, 1120 N. Gilmor street, Assistant, Nineteenth Ward, $468.

Maud Farrow, 602 N. Charles street, Assistant, Ninth Ward, $468.

Edith Dulaney, 1107 N. Mount street, Assistant, Nineteenth Ward, $468.

Nellie Cromwell, 231 N. Gilmor street, Assistant, Nineteenth Ward, $468.

Grace Hammersley, 1420 N. Gilmor street, Assistant, Twentieth Ward, $468.

Ysidra H. Kessler, 737 N. Fulton avenue, Assistant, Twentieth Ward, $468.

R. Allison Milliron, 723 N. Mount street, Assistant, Nineteenth Ward, $468.

Elizabeth Frost, 1430 Harlem avenue, Assistant, Nineteenth Ward, $468.

Emma Lewis, 1514 W. Lanvale street, Assistant, Nineteenth Ward, $468.

Harriet Kunert, Mount, near Franklin street, Janitress, Nineteenth Ward, $204; $10.50 for fires.

James Tabler, 1014 N. Gilmor street, Fireman, Nineteenth Ward, $240.

## FEMALE PRIMARY SCHOOL No. 12.

Jane E. Carr, 841 Columbia avenue, Principal, Eighteenth Ward, $696.

Carrie E. Smith, 541 N. Carey street, Assistant, Nineteenth Ward, $504.

Annie M. Doll, 34 Parkin street, Assistant, Thirteenth Ward, $468.

Julia Carson, 2001 Callow avenue, Assistant, Twenty-first Ward, $468.

Hattie B. Allen, 629 W. Conway street, Assistant, Sixteenth Ward, $468.

Bessie Stowman, 1543 Ridgely street, Assistant, Eighteenth Ward, $468.

Roberta L. Bayly, 1303 Bolton street, Assistant, Twelfth Ward, $468.

Mary L. Poulton, 809 Ridgely street, Assistant, Eighteenth Ward, $468.

Julia T. Hartigan, ————, Assistant, Nineteenth Ward, $468.

Mary A. Dunnavant, 105 S. Schroeder street, Janitress, Thirteenth Ward, $156; $56 for fires.

## FEMALE PRIMARY SCHOOL No. 13.

Alice E. Ford, 1815 E. Baltimore street, Principal, Third Ward, $696.

Emma E. Franz, 1710 E. Monument street, Assistant First Grade, Seventh Ward, $504.

Minnie Daugherty, 2028 Druid Hill avenue, Assistant, Twelfth Ward, $468.

Louisa D. Reichel, 2033 Fairmount avenue, Assistant, Sixth Ward, $468.

Grace M. Morrow, 2436 Calvert street, Assistant, Twenty-second Ward, $468.

Lula M. Parlett, 1338 N. Bond street, Assistant, Seventh Ward, $432.

Ellen Gruggman, 210 N. Patterson Park avenue, Janitress, Sixth Ward, $156.

Daniel Wheatly, 1740 Mullikin street, Fireman, colored, Sixth Ward, $180.

## FEMALE PRIMARY SCHOOL No. 14.

Emily M. Ellis, Park Heights avenue, Principal, Twenty-first Ward, $696.

Mary E. Cummings, 1011 Arlington avenue, Assistant, Twentieth Ward, $504.

Juliet C. Guy, 1214 W. Lanvale street, Assistant, Twentieth Ward, $468.

Caroline Rodgers, 305 W. Lanvale street, Assistant, Twelfth Ward, $468.

Alice Leary, 2102 N. Calvert street, Assistant, Twenty-second Ward, $468.

Mary Boswell, 2001 Linden avenue, Assistant, Twenty-first Ward, $468.

Eliza Jacobs, 1404 Division street, Janitress, Twelfth Ward, $168.

John Stewart, 1816 Division street, Fireman, Twelfth Ward, $150.

FEMALE PRIMARY SCHOOL No. 15.

Annie R. McCoy, 1417 W. Lexington street, Principal, Nineteenth Ward, $696.

Mary H. Houston, 1102 Edmondson avenue, Assistant, Fourteenth Ward, $468.

Jennie R. Smith, 1114 Madison avenue, Assistant, Twelfth Ward, $504.

Emily J. Geddes, 523 Arlington avenue, Assistant, Fourteenth Ward, $468.

Cecilia Kervick, 1101 W. Franklin street, Assistant, Fourteenth Ward, $468.

Lillie E. Kelly, 707 N. Carrollton avenue, Assistant, Fourteenth Ward, $468.

Minnie F. Fastie, 1617 W. Fayette street, Assistant, Nineteenth Ward, $468.

Emma F. Pettit, 811 Scott street, Assistant, Eighteenth Ward, $468.

Helen C. Wells, 1703 W. Lafayette avenue, Assistant, Nineteenth Ward, $468.

Mary A. Ledley, 1004 W. Lexington street, Janitress, Fourteenth Ward, $180; $63 for fires.

FEMALE PRIMARY SCHOOL No. 16.

Elizabeth C. Kenny, 600 E. Eager street, Principal, Eighth Ward, $696.

Emma R. C. Cook, 1018 Monument street, Assistant, Fifth Ward, $468.

J. Teresa Sullivan, 1231 Valley street, Assistant, Seventh Ward, $468.

Anna P. Logue, 1120 Homewood avenue, Assistant, Eighth Ward, $432.

Edith Handly, Merryman avenue, Assistant, Twenty-second Ward, $432.

Clara A. Spengemann, 1219 Orleans street, Beginners, Fifth Ward, $504.

Margaret Quirk, 926 Valley street, Janitress, Eighth Ward, $156.

George Dawson, 435 E. Monument street, Fireman, Fifth Ward, $150; $10.50 for fires.

FEMALE PRIMARY SCHOOL No. 17.

E. Virginia Addison, 311 Warren avenue, Principal, Fifteenth Ward, $696.

Lovie J. Armager, 1518 Harlem avenue, Assistant, Twentieth Ward, $468.

Fannie C. Brannan, 40 E. Hill street, Assistant, Fifteenth Ward, $468.

Maggie R. Floyd, 535 Robert street, Assistant, Twelfth Ward, $468.

Mary E. Rice, 105 W. Ostend street, Assistant, Seventeenth Ward, $468.

Lizzie C. Butler, 1116 Battery avenue, Assistant, Seventeenth Ward, $524.

Nellie S. Howry, 1418 W. Lanvale street, Assistant, Twentieth Ward, $468.

Edna M. Baker, 216 E. Montgomery street, Assistant, Fifteenth Ward, $468.

Manerva C. Dudley, (her X mark; Edna M. Baker, witness), Janitress, Seventeenth Ward, $144; $56 for fires.

FEMALE PRIMARY SCHOOL No. 18.

Ada Bramham, 1529 Eutaw Place, Principal, Twelfth Ward, $696.

Lavinia Dunnett, 1124 McCulloh street, Assistant, Twelfth Ward, $468.

Lillie Hiser, 1615 Lorman street, Assistant, Nineteenth Ward, $468.

Blanche King, 1916 McCulloh street, Assistant, Twelfth Ward, $468.

Leila Chambers, 1009 W. Hopkins avenue, Assistant, Fourteenth Ward, $432.

Mary E. Lusby, 1416 Linden avenue, Assistant, Twelfth Ward, $504.

Margaret J. Tierney, 1508 Argyle avenue, Janitress, Twentieth Ward, $144; $42 for fires.

FEMALE PRIMARY SCHOOL No. 19.

Emma W. Thomas, 1206 John street, Principal, Twelfth Ward, $696.

Lula S. Cook, 1120 N. Eden street, First Assistant, Eighth Ward, $504.

Agnes G. Carlisle, 1324 Myrtle avenue, Second Assistant, Twentieth Ward, $468.

Laura G. Barton, 571 Presstman street, Third Assistant, Twelfth Ward, $432.

Margaret French, 110 Dolphin street, Janitress, Twelfth Ward, $132.

## FEMALE PRIMARY SCHOOL No. 20.

Eliza J. Ireland, 1431 E. Biddle street, Principal, Seventh Ward, $696.

Malvina D. Eldridge, 1033 N. Gay street, Assistant, Seventh Ward, $468.

Susan H. Bowen, 816 E. Preston street, Assistant, Eighth Ward, $468.

Annie E. Gilmore, 1806 Linden avenue, Assistant, Twelfth Ward, $468.

Mary M. Young, 1259 E. North avenue, Assistant First Grade, Eighth Ward, $504.

Louisa Oeh, 1106 E. Preston street, Assistant, Seventh Ward, $468.

Bettie J. Fallon, Govanstown, Assistant, $468.

Margaret Landers, 928 E. Biddle street, Assistant, Seventh Ward, $468.

Elizabeth W. Finney, 515 N. Arlington avenue, Assistant, Fourteenth Ward, $468.

Mary G. Owens, 1529 N. Broadway, Assistant, Seventh Ward, $468.

Katie Finnegan, 705 N. Calvert street, Assistant, Ninth Ward, $468.

Sarah E. Grafflin, 1536 John street, Assistant, Twelfth Ward, $468.

Ethel I. Disney, 935 E. Hopkins avenue, Assistant, Seventh Ward, $468.

Mary M. Lees, 1101 Forrest Place, Assistant, Eighth Ward, $468.

Kate McLeod, 1503 N. Eden street, Assistant, Seventh Ward, $468.

Mary C. Tully, 1807 W. Lexington street, Assistant, Nineteenth Ward, $468.

Annabel McCullough, 1507 N. Bond street, Assistant, Seventh Ward, $468.

Bertha Hand, 327 E. Lanvale street, Assistant, Eighth Ward, $432.

Mary B. Edel, 1610 E. Chase street, Assistant, Seventh Ward, $432.

Rosa Hinkle, 1228 E. Biddle street, Janitress, Seventh Ward, $264; $112 for fires.

FEMALE PRIMARY SCHOOL No. 21.

Amelia E. Barnett, 1505 Madison avenue, Principal, Twelfth Ward, $696.

Mary E. Ray, 1536 W. Lanvale street, Assistant, Twentieth Ward, $468.

Mary R. Porter, 2116 McCulloh street, Assistant, Twelfth Ward, $468.

Mary A. Rennolds, Washington, D. C., Assistant, $468.

Kate R. Crommell, 425 Mosher street, Assistant First Grade, Twelfth Ward, $504.

Edith M. Price, 1331 Mosher street, Assistant, Twentieth Ward, $468.

Evelyn S. Kidd, 2228 Madison avenue, Assistant, Twenty-first Ward, $468.

Margaret E. Gallagher, 1435 N. Fremont street, Janitress, Twentieth Ward, $156; $56 for fires.

FEMALE PRIMARY SCHOOL No. 22.

Mary E. Frame, 107 N. Carey street, Principal, Nineteenth Ward, $696.

Salome V. De Lacour, 639 N. Calhoun street, Assistant, Nineteenth Ward, $468.

Lydia A. Mark, 534 N. Arlington avenue, Assistant, Fourteenth Ward, $468.

Ida I. Crozier, 507 N. Carey street, Assistant, Nineteenth Ward, $468.

Florence Tucker, 1813 Park avenue, Assistant, Twenty-first Ward, $468.

Emma A. Nicholson, 1705 Hollins street, Assistant, Fourteenth Ward, $468.
Eleanor C. Heavey, Ellicott City, Assistant, $468.
Dollie W. Griffith, 739 W. Fayette street, Assistant, Thirteenth Ward, $468.
Alice McFrederick, 917 W. Franklin street, Assistant, Tenth Ward, $468.
Eliza J. Smoot, 1140 Carroll street, Janitress, Eighteenth Ward, $168; $56 for fires.

FEMALE PRIMARY SCHOOL No. 23.

Sarah A. Stoner, 301 E. Preston street, Principal, Eighth Ward, $696.
Emma E. Mitchell, 8 Irvine Place, Assistant, Third Ward, $468.
Mary J. Leese, 1120 Barclay street, Assistant, Eighth Ward, $468.
Emma F. Dawson, 1908 E. Baltimore street, Beginners' Grade, Sixth Ward, $504.
Katie W. Constantine, 2205 E. Lombard street, Assistant, First Ward, $468.
M. Carrie Button, 1532 E. Pratt street, Assistant, Third Ward, $468.
Bertha S. Carr, 1429 E. Biddle street, Assistant, Seventh Ward, $468.
Laura C. Hubbard, 426 E. Twenty-second street, Assistant, Twenty-second Ward, $468.
Bessie E. Jarrett, 507 N. Calhoun street, Assistant, Nineteenth Ward, $468.
Sarah D. Curry, 1804 E. Fairmount avenue, Assistant, Third Ward, $432.
Sarah D. Phillips, 323 S. Ann street, Janitress, Second Ward, $156; $5.25 for fires.
J. M. Strobal, 1824 E. Lombard street, Fireman, Third Ward, $120.

## FEMALE PRIMARY SCHOOL No. 24.

Alice E. Ford, 1815 E. Baltimore street, Principal, Third Ward, $696.

Annie Murray, 206 N. Milton avenue, Assistant, Sixth Ward, $468.

Gertrude R. Wells, 1701 Fairmount avenue, Assistant, Sixth Ward, $468.

Estelle Heede, 617 S. Patterson Park avenue, Assistant, First Ward, $468.

Ella V. Cadell, Fairmount avenue, Assistant, Sixth Ward, $468.

Sophie Aires, 2226 Cambridge street, Assistant, First Ward, $468.

Lillian Black, 11 N. Collington avenue, Assistant, Sixth Ward, $468.

Lida H. Harding, 1826 Druid Hill avenue, Assistant, Twelfth Ward, $408.

Ellen Nicolls, 816 Rowe street, Janitress, First Ward, $156.

Thomas H. Webb. 2506 Hudson street, Fireman, First Ward, $240.

## FEMALE PRIMARY SCHOOL No. 25.

Anna E. Wardenburg, 2623 W. North avenue, Principal, Twenty-first Ward, $696.

Minnie A. Lang, 2206 Barclay street, Assistant, Twenty-second Ward, $504.

Mollie L. Knotts, 1830 St. Paul street, Assistant, Twenty-second Ward, $468.

Lilian B. Warrington, 220 S. Patterson Park avenue, Assistant, First Ward, $468.

Florence M. Whiting, 2031 E. Lombard street, Assistant, First Ward, $468.

M. Ellen Wilson, 104 N. Chester street, Assistant, Sixth Ward, $468.

J. Alberta Davis, 2805 Elliott street, Assistant, First Ward, $468.

Lelia L. Farinholt, 421 N. Fulton avenue, Assistant, Nineteenth Ward, $468.

Clara L. Rumsey, 2817 Hudson street, Assistant, First Ward, $408.

Elizabeth Sweitzer, 1728 Gough street, Janitress, First Ward, $180; $7 for fires.

Taylor Evans, 1600 Aliceanna street, Fireman, Second Ward, $240.

FEMALE PRIMARY SCHOOL No. 26.

Rosalia Barrett, 613 W. North avenue, Principal, Twelfth Ward, $696.

Elizabeth D. Cathcart, 2417 N. Calvert street, Assistant, Twenty-second Ward, $468.

Mary W. Martin, 1815 E. Baltimore street, Assistant, Third Ward, $504.

Margaret K. Peregoy, 2240 Guilford avenue, Assistant, Twenty-second Ward, $468.

M. Florence Halbert, 418 E. North avenue, Assistant, Twenty-second Ward, $468.

Emily Vickery, 1811 Orleans street, Janitress, Sixth Ward, $132; $26.25 for fires.

FEMALE PRIMARY SCHOOL No. 27.

Sue Browning, 124 S. Patterson Park avenue, Principal, First Ward, $696.

Alice F. Price, 1829 Jefferson street, Assistant, Sixth Ward, $468.

Carrie Sinclair, 13 S. Chester street, Assistant, First Ward, $468.

Virginia Wightman, 2121 E. Baltimore street, Assistant, First Ward, $468.

Annie Marchant, 2018 E. Baltimore street, Assistant, Sixth Ward, $468.

Cora Shaffer, 1525 N. Broadway, Assistant, Seventh Ward, $504.

Sadie Spedden, 2408 E. Baltimore street, Assistant, Sixth Ward, $468.

Lorenda Davis, 1922 E. Pratt street, Assistant, Third Ward, $468.

Mary Davis, 1019 N. Caroline street, Assistant, Seventh Ward, $468.

Mary E. Pertner, S. Chester street, Janitress, First Ward, $168; $54.25 for fires. In this is included $7.75 per month for fires from October to May.

## FEMALE PRIMARY SCHOOL No. 28.

Annie F. North, 313 E. Twenty-second street, Principal, Twenty-second Ward, $696.

Agnes Anderson, 1024 Madison avenue, First Assistant, Twelfth Ward, $504.

Rose F. Morse, 1001 O street, Second Assistant, Washington, $468.

Catherine Carroll, 726 Dolphin street, Third Assistant, Twentieth Ward, $468.

Lydia E. Spence, 626 S. Paca street, Third Assistant, Sixteenth Ward, $468.

Grace A. Riggans, 222 Montgomery street, Third Assistant, Fifteenth Ward, $468.

Carrie T. Brown, 113 Carey street, Third Assistant, Nineteenth Ward, $432.

Lucy D. Ruark, 216 Warren avenue, Third Assistant, Fifteenth Ward, $432.

Grace M. Milbourne, 2403 Maryland avenue, Third Assistant, Twenty-second Ward, $468.

Mary J. Pearl, 1288 Battery avenue, Janitress, Seventeenth Ward, $144; $49 for fires.

FEMALE PRIMARY SCHOOL No. 29.

Sarah R. Webster, 714 N. Fremont avenue, Principal, Fourteenth Ward, $696.

Mollie Delanty, 731 E. Jefferson avenue, Assistant, Twenty-second Ward, $468.

Kate McDevitt, 325 E. Twentieth street, Assistant, Twenty-second Ward, $502.

Mamie V. Addison, 20 E. Henrietta street, Assistant, Fifteenth Ward, $468.

Amalia Thommen, 206 E. Fort avenue, Assistant, Seventeenth Ward, $432.

Elizabeth Coat, 1103 Leadenhall street, Janitress, Seventeenth Ward, $156; $7 for fires.

Luther F. Snyder, 123 W. Henrietta street, Fireman, Sixteenth Ward, $180.

FEMALE PRIMARY SCHOOL No. 30.

Belle Steele, 1316 W. Mulberry street, Principal, Nineteenth Ward, $696.

Ida B. White, 1726 W. Franklin street, Assistant, Nineteenth Ward, $468.

Annie E. Kinzer, 539 N. Fulton avenue, Assistant, Nineteenth Ward, $468.

Carrie C. Thomas, 4 S. Gilmor street, Assistant, Fourteenth Ward, $468.

Jessie J. Fitzgerald, 713 N. Fulton avenue, Assistant First Grade, Nineteenth Ward, $504.

A. Blanche Burgess, 1610 Hollins street, Assistant, Nineteenth Ward, $468.

Maggie G. Perry, 1137 N. Fulton avenue, Assistant, Nineteenth Ward, $468.

Maria S. McLeane, 1632 Hollins street, Assistant, Nineteenth Ward, $468.

Winifred Smith, 1338 Hollins street, Assistant, Nineteenth Ward, $468.

Bessie B. Buck, 1823 W. Lexington street, Assistant, Nineteenth Ward, $432.
Ida Buckheimer, 222 N. Stricker street, Assistant, Nineteenth Ward, $468.
Lulu Kennard, 1942 Edmondson avenue, Assistant, Nineteenth Ward, $468.
M. Cecilia Dietz, 1120 N. Gilmor street, Assistant, Nineteenth Ward, $468.
Mary A. Fletcher, 1925 Frederick avenue, Janitress, $156; $7 for fires.
John H. Schaefer, 1733 McHenry street, Fireman, Eighteenth Ward, $360.

FEMALE PRIMARY SCHOOL No. 31.

Mary L. Allen, 120 N. Calhoun street, Principal, Nineteenth Ward, $696.
Jane B. Martin, 2026 N. Calvert street, Assistant, Twenty-second Ward, $504.
Etta P. Cooke, 1035 N. Carey street, Assistant, Twenty-first Ward, $468.
M. Louise Search, 715 N. Fulton avenue, Assistant, Nineteenth Ward, $468.
O. Lula Wicks, 945 W. Lombard street, Assistant, Thirteenth Ward, $468.
Elizabeth Bennett, 242 Arlington avenue, Janitress, Fourteenth Ward, $180.
Gustavus L. Ford, 1822 W. Lombard street, Fireman, Fourteenth Ward, $156.

FEMALE PRIMARY SCHOOL No. 32.

Carrie B. Evans, 1234 W. Lanvale street, Principal, Twentieth Ward, $696.
M. Neto Salom, 343 St. Paul street, Assistant First Grade, Ninth Ward, $504.

Alice G. Gray, 630 N. Broadway, Assistant, Fifth Ward, $468.

Florence L. Glover, 300 E. North avenue, Assistant, Twenty-second Ward, $468.

Viola N. Dunham, 1216 Linden avenue, Assistant, Eleventh Ward, $468.

Lillie D. Bankard, 37 S. Stricker street, Assistant, Fourteenth Ward, $432.

Laura M. Crouch, 1117 Forrest Place, Assistant, Eighth Ward, $432.

Hallie Bagwell, 251 W. Hoffman street, Assistant, Eleventh Ward, $468.

Minnie Murphy, 815 E. Eager street, Janitress, Eighth Ward, $156; $7 for fires.

John Connelly, 1035 Harford avenue, Fireman, Seventh Ward, $180.

FEMALE PRIMARY SCHOOL No. 33.

Flora Gump, 1902 Madison avenue, Principal, Twelfth Ward, $696.

Lizzie Eichner, 705 Harlem avenue, Assistant, Twentieth Ward, $468.

Kate King, 52 E. Hill street, Assistant, Fifteenth Ward, $504.

Hattie Bell, 1405 Druid Hill avenue, Assistant, Twelfth Ward, $468.

Ella Coleman, 814 N. Broadway, Assistant, Seventh Ward, $468.

Anna McGee, 317 Warren avenue, Assistant, Fifteenth Ward, $432.

May Young, 222 Warren avenue, Assistant, Fifteenth Ward, $432.

Birdie Stiefel, 1830 Bolton street, Assistant, Twelfth Ward, $432.

Isabel Lingeman, 1642 S. Charles street, Janitress, Seventeenth Ward, $156.

Joseph B. Connaway, 6 W. Fort avenue, Fireman, Seventeenth Ward, $210.

FEMALE PRIMARY SCHOOL No. 34.

Nellie M. Curtiss, 1502 Hollins street, Principal, Nineteenth Ward, $696.

Helen P. Reed, 2452 Druid Hill avenue, Assistant First Grade, Twenty-first Ward, $504.

Florence G. Rogan, 828 S. Paca street, Assistant, Sixteenth Ward, $468.

Helen V. Droste, 1303 Argyle avenue, Assistant, Twentieth Ward, $432.

Eva C. Claiborne, 1111 W. Franklin street, Assistant, Fourteenth Ward, $432.

Virginia Evatt, 904 Hanover street, Janitress, Sixteenth Ward, $156.

John Wasmuth, 131 W. Hamburg street, Fireman, Eighteenth Ward, $270.

FEMALE PRIMARY SCHOOL No. 35.

Carrie M. Hope, 804 William street, Principal, Fifteenth Ward, $696.

Fannie B. Driscoll, 927 Argyle avenue, Assistant, Eleventh Ward, $504.

M. Rose Kearney, 301 E. Lanvale street, Assistant, Eighth Ward, $468.

Sarah R. Onion, 1236 Ashland avenue, Assistant, Seventh Ward, $468.

Martha J. Dittus, 1807 McCulloh street, Assistant, Twelfth Ward, $432.

Bridget Hayes, 921 S. Charles street, Janitress, Fifteenth Ward, $156.

James W. Sank, 1926 Hanover street, Fireman, Seventeenth Ward, $240.

FEMALE PRIMARY SCHOOL No. 36.

Sarah E. Darvon, 1908 E. Baltimore street, Principal, Sixth Ward, $696.

Clara L. Lowell, 213 N. Chester street, First Grade, Sixth Ward, $504.

Mary C. Cooper, 2213 E. Lombard street, Assistant, First Ward, $468.

Jennie G. Borrell, 418 N. Bond street, Assistant, Sixth Ward, $432.

Edith Adler, 1601 Linden avenue, Assistant, Twelfth Ward, $432.

Mrs. Wick, 1728 Mullikin street, Janitress, Sixth Ward, $144; $38.50 for fires.

FEMALE PRIMARY SCHOOL No. 37.

Martha K. Storch, 1626 E. Biddle street, Principal, Seventh Ward, $696.

Mary E. Ford, 2700 N. Charles street, Assistant First Grade, Twenty-second Ward, $504.

Emma Gritzan, 810 Aisquith street, Assistant, Fifth Ward, $468.

Alice B. O'Donnell, 2812 Elliott street, Assistant, First Ward, $468.

Helen G. Chowning, 1751 N. Gay street, Assistant, Sixth Ward, $432.

Ellen Dinnis, 1119 N. Wolfe street, Janitress, Sixth Ward, $156.

James I. Carroll, 2227 Cleaveland street, Fireman, Sixth Ward, $180.

FEMALE PRIMARY SCHOOL No. 38.

Ella C. Farnen, 2205 E. Lombard street, Principal, First Ward, $696.

Ada R. Kettlewell, 1247 N. Broadway, Assistant First Grade, Seventh Ward, $504.

Sallie H. Watkins, 908 W. Mulberry street, Assistant, Tenth Ward, $468.

M. Virgie Forwood, 1206 N. Caroline street, Assistant, Seventh Ward, $468.

Nellie G. Greene, 218 S. Patterson Park avenue, Assistant, First Ward, $468.

Hannah Ries, 1814 McCulloh street, Assistant, Twenty-first Ward, $468.

Carrie H. Paine, 106 N. Chester street, Assistant, Sixth Ward, $468.

Mary Kelly, 2805 Fait avenue, Janitress, First Ward, $144; $49 for fires.

FEMALE PRIMARY SCHOOL No. 39.

Lillian E. Gatch, 315 N. Carrollton avenue, Principal, Fourteenth Ward, $696.

Elizabeth R. Payne, 917 W. Fayette street, Assistant First Grade, Thirteenth Ward, $504.

Emma C. Henderson, 1434 W. Lanvale street, Assistant, Twentieth Ward, $468.

Wm. M. Spencer, 1927 White street, Fireman, Nineteenth Ward.

Emma Hawkins, 1386 Stockton street, Janitress, colored, Twentieth Ward, $156; $7 for fires.

ENGLISH AND GERMAN SCHOOL No. 1.

Eliphalet Parsons, 1104 McCulloh street, Principal, Twelfth Ward, $1500.

Carl Otto Schoenrich, 2127 McCulloh street, Vice-Principal, Twelfth Ward, $1008.

M. Ella Gill, 923 W. Lexington street, First Assistant (English), Thirteenth Ward, $648.

Helen G. Smyth, 237 W. Lafayette avenue, Assistant, Twelfth Ward, $504.

Lizzie Soudershoff, 1023 McCulloh street, Assistant, Twelfth Ward, $504.

Mary Kinnemon, 1030 W. Hopkins avenue, Assistant, Fourteenth Ward, $504.

Clementine Bieler, Glyndon, Baltimore County, Assistant, $504.

Louise Thalwitzer, 814 W. Fayette street, First Grade (German), Thirteenth Ward, $504.

Alice Gillespie, 755 W. Franklin street, Assistant (Prim.), Tenth Ward, $468.

Minnie Kaessmann, 1820 Edmondson avenue, First Assistant (German), Nineteenth Ward, $600.

Blanche MacCarthy, 2052 Linden avenue, First Grade (English), Twentieth Ward, $504.

Marie Hofmann, 635 W. Hoffman street, Assistant, (Prim.), Eleventh Ward, $468.

Caroline Hayden, 409 Robert street, Assistant (Prim.), Twelfth Ward, $468.

Estella Fluegel, 521 Robert street, Assistant (Prim.), Twelfth Ward, $468.

Mrs. Heine, 1003 Pennsylvania avenue, Janitress, Eleventh Ward, $288; $94.50 for fires.

## ENGLISH AND GERMAN SCHOOL No. 2.

Charles E. Hill, 831 N. Fremont avenue, Principal, Twentieth Ward, $1500.

Adolf G. Schwier, 1306 S. Charles street, Vice-Principal, Seventeenth Ward, $1008.

Annie R. Packie, 1303 W. Lanvale street, First Assistant (English), Twentieth Ward, $648.

Martha Garthe, 1419 W. Lombard street, First Assistant (German), Fourteenth Ward, $600 per annum.

Mary A. Cummings, 1032 Valley street, Assistant Grammar, Eighth Ward, $504.

Maggie E. Aull, 3116 York road, Assistant Grammar, Twenty-second Ward, $504.

Ella Hilgert, 1001 Edmondson avenue, Assistant Grammar, Twenty-first Ward, $504.

Amelia Lentz, 1321 Hanover street, Assistant Grammar, Seventeenth Ward, $504.

Antonia Soudershoff, 1023 McCulloh street, Assistant First Grade German, Twelfth Ward, $504.

Martha Rosenfeld, 2305 Madison avenue, Assistant Grammar, Twenty-first Ward, $504.

Eva E. Brown, 1711 Druid Hill avenue, Assistant First Grade English, Twelfth Ward, $504.

Ella Pridgeon, 110 N. Gilmor street, Assistant Primary, Nineteenth Ward, $468.

Mary W. Joesting, 280 Old York road, Assistant Primary, Twenty-second Ward, $468.

Bertha C. Droste, 1303 Argyle avenue, Assistant Primary, Twentieth Ward, $468.

Georgia T. Young, 222 Warren avenue, Assistant Primary, Fifteenth Ward, $468.

Mamie W. Blair, 940 Franklin street, Assistant Primary, Tenth Ward, $468.

Elizabeth C. Remmert, 920 W. Saratoga street, Assistant Primary, Tenth Ward, $468.

M. Teresa Lee, 511 McCulloh street, Assistant Primary, Nineteenth Ward, $468.

Antoinette E. Henning, 717 Mulberry street, Assistant Primary, Tenth Ward, $468.

Carrie M. Herrmann, 1425 W. Lexington street, Assistant Primary, Nineteenth Ward, $468.

Eva W. Smith, 712 W. Fayette street, Assistant Primary, Thirteenth Ward, $468.

Mary J. Grauel, 212 E. Cross street, Assistant Primary, Fifteenth Ward, $468.

Lena S. Broening, 113 E. Montgomery street, Assistant Primary, Fifteenth Ward, $468.

Emma May Waidner, 802 S. Sharp street, Assistant Primary, Fifteenth Ward, $468.

Carrie Hofmann, 1511 Hanover street, Assistant Primary, Seventeenth Ward, $468.

Louise Imhofe, 622 Hanover street, Assistant Primary, Fifteenth Ward, $468.

Charlotte E. Smith, 1425 S. Charles street, Assistant Primary, Seventeenth Ward, $432.

Edith M. Schryver, 641 N. Calhoun street, Assistant Primary, Nineteenth Ward, $432.

Annie M. Grimm, 7 E. Ostend street, Assistant Primary, Seventeenth Ward, $468.

D. M. Scott Leathers, 37 E. Ostend street, Fireman, Seventeenth Ward, $420.

Katie Wesley, corner Charles and Randall streets, Janitress, Seventeenth Ward, $252.

Cath. McMahon, 1608 Patapsco street, Janitress, Seventeenth Ward, $126.

Elizabeth Kern, 740 Fort avenue, Janitress, Seventeenth Ward, $126.

## ENGLISH AND GERMAN SCHOOL No. 3.

C. Alex. Fairbank, 1045 N. Broadway, Principal, Seventh Ward, $1500.

Carl Laegeler, 1433 N. Gay street, Vice-Principal, Seventh Ward, $1008.

Agnes M. Hughes, 1828 McCulloh street, First Assistant, English, Twelfth Ward, $648.

John H. Kunker, Jr., 6 N. Calhoun street, First Assistant, German, Nineteenth Ward, $900.

Emma Rogge, 1812 N. Broadway, Second Assistant, German, Seventh Ward, $648.

Annette M. Gade, 1213 Bolton street, Second Assistant, English, Twelfth Ward, $504.

Anna E. Brennen, 722 York road, Second Assistant, English, Twenty-second Ward, $504.

Marian Preiss, 2012 Bolton avenue, Second Assistant, German, Twenty-first Ward, $504.

Clara C. Kraft, 50 S. Fulton avenue, Second Assistant, German, Fourteenth Ward, $504.

Ella M. S. Horstmeier, 1008 Stiles street, Second Assistant, German, Fourth Ward, $504.

Clara Wightman, 2121 E. Baltimore street, Second Assistant, English, First Ward, $504.

Marie Steinmueller, 327 N. Carrollton avenue, Second Assistant, German, Nineteenth Ward, $504.

Clara Herman, 1812 Madison avenue, Second Assistant, German, Twelfth Ward, $468.

Mollie O. Newton, 2815 W. North avenue, Second Assistant, English, Twenty-first Ward, $504.

Deborah Cohn, 615 S. Broadway, Second Assistant, German, Second Ward, $504.

Clara Hofmann, 1702 Linden avenue, First Primary, German, Twelfth Ward, $504.

Kate Schmalz, 205 N. Broadway, Second Assistant, German, Sixth Ward, $468.

Anna J. Thompson, 1316 W. Lanvale street, First Primary, English, Twentieth Ward, $504.

Kate B. Glanville, 106 Mount Royal avenue, Second Assistant, English, Eighth Ward, $468.

Mary A. Turnt, 600 N. Monroe street, Second Assistant, English, Nineteenth Ward, $504.

Katharine Duke, 126 S. Broadway, Second Assistant, English, Third Ward, $468.

Helen H. Gude, 1340 Druid Hill avenue, Second Assistant, German, Twelfth Ward, $468.

Clara C. Wilson, 5 S. Ann street, Second Assistant, English, Third Ward, $468.

S. Louise Witthaus, 45 S. Fulton avenue, Second Assistant, German, Fourteenth Ward, $468.

Anna A. Barthel, 427 N. Broadway, Second Assistant, German, Sixth Ward, $468.

Alice Morgan Brown, 121 Aisquith street, Second Assistant, English, Fourth Ward, $504.

F. Estelle Bond, 8 Irvine Place, Second Assistant, English, Third Ward, $504.

Ida G. Lorman, 106 Aisquith street, Second Assistant, English, Fourth Ward, $468.

Lavinia Schleisner, 1000 Jackson Place, Second Assistant, English, Third Ward, $468.

Ida Hubert, 2118 Jefferson street, Second Assistant, German, Sixth Ward, $468.

Jeannette M. Eisenbrandt, 2113 Bolton avenue, Second Assistant, German, Twenty-first Ward, $468.

M. Lulu White, 1905 Fairmount avenue, Second Assistant, English, Sixth Ward, $468.

Fanny R. Morris, 206 S. Broadway, Second Assistant, English, Third Ward, $432.

F. Howard Warfield, 1606 Druid Hill avenue, Second Assistant, English, Twelfth Ward, $504.

Clara Louise Gable, 1105 E. Baltimore street, Second Assistant, English, Fourth Ward, $432.

Elsa Conradi, 128 W. Franklin street, Second Assistant, German, Ninth Ward, $432.

Rosa Sachs, 213 Aisquith street, Second Assistant, English, Fifth Ward, $468.

Minnie C. Smith, 832 W. Fayette street, Second Assistant, English, Thirteenth Ward, $432.

Mamie Baumgarten, 1536 Linden avenue, Second Assistant, English, Twelfth Ward, $468.

Clara A. Heise, 712 W. Lanvale street, Probationer, Twentieth Ward, $408.

Bessie Fry, 1745 E. Pratt street, Second Assistant, English, Third Ward, $432.

Peter Repson, 1822 E. Pratt street, Fireman, Third Ward, $660.

Mary Smith, 113 N. Dallas street, Janitress, Third Ward, $192.

Florence P. Palmer, 1128 Laurel street, Janitress, Fourth Ward, $192.

Johanna Niewerth, 1231 E. Monument street, Janitress, Fifth Ward, $180; $17.50 for fires.

Henrietta Mussington, 254 S. Bond street, Janitress, Third Ward, $132.

## ENGLISH AND GERMAN SCHOOL No. 4.

Elisha M. Jackson, 1023 N. Broadway, Principal, Seventh Ward, $1500.

Henry F. R. Snyder, 421 N. Wolfe street, Vice-Principal, Sixth Ward, $804.

Mary R. Pope, 324 Sheldon avenue, Roland Park, Baltimore County, First Assistant, English, Baltimore County, $648.

Valentine Scheer, 1016 E. Preston street, First Assistant, German, Seventh Ward, $600.

Emma Evans, 808 N. Broadway, Third Assistant, Grammar Grade, Sixth Ward, $504.

Katharine A. Foley, 1501 N. Caroline street, Third Assistant, Grammar Grade, Seventh Ward, $504.

Anna Plaut, 539 N. Gay street, Third Assistant, Grammar Grade, Fifth Ward, $504.

Mamie E. Hasson, 1431 E. Biddle street, Third Assistant, Grammar Grade, Seventh Ward, $504.

Marcella Eason, 705 Aisquith street, Third Assistant, Grammar Grade, Fifth Ward, $504.

Grace A. Cook, 1120 N. Eden street, Third Assistant, Grammar Grade, Seventh Ward, $504.

Margaret J. Angel, 428 E. Twentieth street, Third Assistant, Grammar Grade, Twenty-second Ward, $504.

Annie M. James, 1730 E. Preston street, Third Assistant, Grammar Grade, Seventh Ward, $504.

Fannie M. Baumgarten, 1536 Linden avenue, Third Assistant, Grammar Grade, Twelfth Ward, $504.

Maggie M. Search, 1634 E. Preston street, Third Assistant, Grammar Grade, Seventh Ward, $504.

Lizzie Boyle, 1014 Hillen street, Assistant Beginners' Grade, English, Fifth Ward, $504.

Lizzie Sickel, 512 Aisquith street, Third Assistant, Grammar Grade, Fifth Ward, $504.

Johanna F. Sommer, 1329 Mosher street, Third Assistant, Primary Grade, Twentieth Ward, $468.

Maggie A. Schritz, 726 N. Caroline street, Third Assistant, Grammar Grade, Fifth Ward, $504.

Bertha H. L. Lang, 1632 Jefferson street, Third Assistant, Primary Grade, Sixth Ward, $468.

Sallie K. Gambel, 1522 E. Preston street, Third Assistant, Primary Grade, Seventh Ward, $468.

Dora M. Grauel, 1214 Madison avenue, Third Assistant, Primary Grade, Twelfth Ward, $468.

Fannie Harman, 210 N. Broadway, Assistant, Beginners' Grade, German, Third Ward, $504.

Katie Floyd, 1012 N. Broadway, Third Assistant, Primary Grade, Seventh Ward, $468.

F. Blanche Guy, 1624 E. Chase street, Third Assistant, Primary Grade, Seventh Ward, $468.

Miriam Sommerfeld, 2027 Druid Hill avenue, Third Assistant, Primary Grade, Twelfth Ward, $468.

Mary G. Kathman, 1109 N. Eden street, Third Assistant, Primary Grade, Seventh Ward, $468.

Bertha Wetzler, 41 N. Caroline street, Third Assistant, Primary Grade, Third Ward, $468.

Laura G. E. Fales, 1233 N. Bond street, Third Assistant, Primary Grade, Seventh Ward, $468.

Regina Weinberg, 1027 N. Caroline street, Third Assistant, Primary Grade, Seventh Ward, $468.

Anie M. Keplinger, 1827 N. Broadway, Third Assistant, Primary Grade, Seventh Ward, $468.

Carrie S. E. Harms, 1319 N. Central avenue, Third Assistant, Primary Grade, Seventh Ward, $468.

Elizabeth Nickel, 844 W. Lombard street, Third Assistant, Primary Grade, Thirteenth Ward, $468.

Agnes Genso, 1047 N. Broadway, Third Assistant, Primary Grade, Seventh Ward, $468.

John W. Roberts, 1107 N. Broadway, Fireman, Seventh Ward, $600; $7 for fires.

Catharine Spillman, 716 N. Caroline street, Janitress, Fifth Ward, $480.

## ENGLISH AND GERMAN SCHOOL No. 5.

Chas. A. A. J. Miller, Baltimore and Augusta avenue, Principal, Twenty-first Ward, $1500.

Chas. W. Hebbel, 1520 Orleans street, Vice-Principal, Sixth Ward, $1008.

Delia Hickman, 913 N. Stricker street, First Assistant, English, Nineteenth Ward, $648.

Rob. A. Smith, 1721 E. Preston street, First Assistant, German, Seventh Ward, $600.

Eugenia Caspari, 1610 Druid Hill avenue, First Assistant, Branch, Twelfth Ward, $648.

Mollie L. Lang, 725 W. Lexington street, Third Assistant, Thirteenth Ward, $504.

Emma Benson, 34 Parkin street, Third Assistant, Thirteenth Ward, $504.

Fannie Kahn, 2203 Maple avenue, Third Assistant, Twenty-first Ward, $504.

Eugenia Eversfield, 1915 Druid Hill avenue, Third Assistant, Twelfth Ward, $504.

Fannie Brewer, 1830 Druid Hill avenue, Third Assistant, Twelfth Ward, $504.

Mary Sonnemann, 1618 Mulberry street, Third Assistant, Nineteenth Ward, $504.

Pattie E. McCoy, 1417 W. Lexington street, Third Assistant, Nineteenth Ward, $504.

Emma V. Sutton, West Arlington, Third Assistant, Twenty-first Ward, $504.

Louise Fensterer, 1340 N. Mount street, Assistant Beginners' Grade, English, Nineteenth Ward, $504.

Louise Mueller, 635 W. Mulberry street, Assistant Beginners' Grade, German, Tenth Ward, $504.

Florence R. Bonn, 637 N. Calhoun street, Assistant, Primary Grade, Eighteenth Ward, $468.

Ella Bissing, 716 W. Lombard street, Assistant, Primary Grade, Thirteenth Ward, $468.

Rosa Dubel, 523 N. Carey street, Assistant Primary Grade, Eighteenth Ward, $468.

Elizabeth Landwehr, 17 Frederick avenue, Assistant, Primary Grade, Twenty-first Ward, $468.

Augusta J. Ohlmeyer, 117 W. Saratoga street, Assistant, Primary Grade, Tenth Ward, $468.

Florence T. Lewis, 1309 Myrtle avenue, Assistant, Primary Grade, Twentieth Ward, $468.

Anna B. Roschen, 1215 Myrtle avenue, Assistant, Primary Grade, Twentieth Ward, $468.

Ella J. Mollenhagen, 530 N. Fulton street, Assistant, Primary Grade, Nineteenth Ward, $468.

Anna W. Ermer, 1520 Battery avenue, Assistant, Primary Grade, Seventeenth Ward, $468.

Mary E. Kammerer, 1027 W. Lanvale street, Assistant, Primary Grade, Fourteenth Ward, $468.

Lillian M. Peterson, Mt. Winans, Assistant, Primary Grade, Thirteenth District, Baltimore County, $432.

Belle G. Norwood, 644 N. Carey street, Assistant, Primary Grade, Nineteenth Ward, $432.

L. Alverta Raycob, 218 N. Greene street, Assistant, Primary Grade, Tenth Ward, $432.

John Mooney, 759 Barre street, Fireman, Eighteenth Ward, $540.

Mary Meekins, 825 Williams street, Janitress, Seventeenth Ward, $372; $21 for fires.

Edward F. Callahan, 10 S. Fremont avenue, Fireman, Thirteenth Ward, $120.

Caroline Scholz, 802 W. Mulberry street, Janitress, Thirteenth Ward, $156; $7 for fires.

## ENGLISH AND GERMAN SCHOOL No. 6.

F. Otho Lang, 1000 Granby street, Principal, Fourth Ward, $1500.

*August Hering, 1721 W. Lombard street, Vice-Principal, Fourteenth Ward, $1008.

Catharine H. Worthington, 1835 W. Lexington street, First Assistant, English Grammar, Nineteenth Ward, $648.

*Agnes E. Buchholz, 623 N. Fulton avenue, First Assistant, German Grammar, Nineteenth Ward, $504.

Mary J. List, 13 N. Gilmor street, in charge of Branch, Primary, Nineteenth Ward, $648.

Emma T. Hill, 1115 Valley street, Assistant, Grammar, Seventh Ward, $504.

Mary C. Bandell, 1000 N. Fulton avenue, Assistant, Grammar, Nineteenth Ward, $504.

*Edward L. Heinichen, 1012 W. Hopkins avenue, Assistant, Primary, Fourteenth Ward, $468.

Iola Grumbine, 1721 W. Franklin street, Assistant, Grammar, Nineteenth Ward, $504.

*Anna C. Broessel, 429 N. Gilmor street, Assistant, First Grade, German Primary, Nineteenth Ward, $468.

Beulah G. Cox, 103 N. Carey street, Assistant, First Grade, English Primary, Nineteenth Ward, $504.

Anna M. Riordan, 315 N. Carey street, Assistant, Grammar, Nineteenth Ward, $504.

Louisa Schmidt, 785 George street, Assistant, Grammar, Eleventh Ward, $504.

Mary E. Gwin, 2116 W. North avenue, Music in Grammar and Primary, Twenty-first Ward, $504.

*Minnie J. Witthaus, 45 S. Fulton avenue, Assistant, Primary, Fourteenth Ward, $468.

Lucie M. Brady, 1433 Mt. Royal avenue, Assistant, Primary, Twelfth Ward, $468.

*Bertha Gichner, 1732 W. Lexington street, Assistant, Primary, Nineteenth Ward, $468.

Bessie G. Evitt, 2421 McCulloh street, Assistant, Primary, Twenty-first Ward, $468.

Anna L. Kraft, 50 S. Fulton avenue, Assistant, Primary, Fourteenth Ward, $432.

Bessie A. Nicholson, 1093 W. Fayette street, Assistant, Primary, Fourteenth Ward, $468.

Clara Crowley, 523 N. Gilmor street, Assistant, Primary, Nineteenth Ward, $468.

*Minna C. Faul, 1610 Druid Hill avenue, Assistant, Primary, Twelfth Ward, $468.

M. Loretto Miles, 714 N. Gilmor street, Assistant, Primary, Nineteenth Ward, $432.

Dora M. Varian, 2329 Barclay street, Assistant, Primary, Twenty-second Ward, $432.

Bessie H. Burk, Waverly, Assistant, Primary, Twenty-second Ward, $432.

*Ludwig Soine, 1039 Edmondson avenue, Assistant, Primary, Fourteenth Ward, $408.

L. Maud L. Carter, 1018 N. Fulton avenue, Assistant, Primary, Nineteenth Ward, $468.

*Anna M. L. Frincke, 807 S. Sharp street, Assistant, Grammar at present, Fifteenth Ward, temporary.

William Stapf, 40 Garrison lane, Janitor, Twenty-first Ward, $217—$168 salary, $49 fires.

William J. Anderson, 411 S. Pulaski street, Fireman, Eighteenth Ward, $725.25—$720 salary, $5.25 extra fire.

Lina Dorner, 2135 W. Vine street, Janitress, Nineteenth Ward, $180.

Elizabeth Mesmeringer, 327 S. Pulaski street, Janitress, Eighteenth Ward, $180.

*Teaches German.

## ENGLISH AND GERMAN SCHOOL No. 7.

Albert I. Gminder, 1111 Barclay street, Principal, Eighth Ward, $125.

Frederick Schroeck, 1801 W. Franklin street, Vice-Principal, Nineteenth Ward, $84.

May B. Robson, 516 N. Broadway, First Assistant, English, Sixth Ward, $54.

Carrie Hebbel, 1520 Orleans street, First Assistant, German, Sixth Ward, $50.

Elizabeth Robinson, 1711 E. Baltimore street, Third Assistant, Grammar, English, Third Ward, $42.

Louisa Kaessmann, 1820 Edmondson avenue, Third Assistant, Grammar, German, Nineteenth Ward, $42.

Sarah Roche, 1815 E. Lombard street, Beginners, English, Third Ward, $42.

Amelia J. B. Morris, 206 S. Broadway, Primary, Assistant, English, Third Ward, $39.

Henrietta Loos, 416 N. Wolfe street, Primary, Assistant, German, Sixth Ward, $39.

Emma Schlutter, 1400 Ashland avenue, Beginners, German, Seventh Ward, $39.

Katharina Kellermann, 1617 North avenue, Primary, Assistant, English, Seventh Ward, $34.

Barbara Mooney, 12 N. Bond street, Janitress, Third Ward, $13; $6.25 extra for fires.

Mollie Weaver, 2402 E. Fayette street, Janitress, Sixth Ward, $10; $4 extra for fires.

## COLORED HIGH SCHOOL.

Geo. Lewis Sealey, 1628 N. Calvert street, Principal, Eighth Ward, $2400.

Mary E. Hudgins, 700 N. Arlington avenue, Vice-Principal, Twentieth Ward, $1008.

Nellie M. O'Connor, 1820 Park avenue, Assistant, Twenty-first Ward, $900.

Sarah E. Seager, 611 Lennox street, Assistant, Twenty-first Ward, $900.

Lizette W. Reese, Atlantic avenue, Assistant, Twenty-second Ward, $900.

Rebecca B. Brooks, 848 W. North avenue, Assistant, Twenty-first Ward, $900.

Betty M. Makibbon, 742 W. Mulberry street, Assistant, Tenth Ward, $900.

Mrs. Deveney, 104 Concord street, Janitress, Ninth Ward, $168.

R. R. Carter, 1700 Register street, Fireman, Seventh Ward, $120.

## COLORED GRAMMAR SCHOOL No. 1.

Edwin Forrest, West Arlington, Principal, Twenty-first Ward, $1404.

Mary Shaw, 1813 Barclay street, First Assistant, Eighth Ward, $672.

Emma H. Muesse, 1251 N. Broadway, Second Assistant, Seventh Ward, $516.

Laura Craig, 1228 N. Eden street, Third Assistant, Seventh Ward, $504.

Rosa Counselman, 1431 Edmondson avenue, Third Assistant, Nineteenth Ward, $504.

Mary L. Feig, 1621 N. Caroline street, Third Assistant, Seventh Ward, $504.

Florence A. Sterling, 104 W. Huntingdon avenue, Third Assistant, Twenty-second Ward, $504.

Hilda Louis, 737 W. North avenue, Third Assistant, Twelfth Ward, $504.

Rose M. Riley, 94 Harford avenue extended, Third Assistant, Twenty-second Ward, $504.

Annie E. Angerman, 438 E. North avenue, Third Assistant, Twenty-second Ward, $504.

Marie E. Moore, 1112 Clendennin street, Third Assistant, Twenty-first Ward, $504.

Grace Ireland, 230 N. Howard street, Third Assistant, Tenth Ward, $504.

Bridget Deveney, 104 Concord street, Janitress, Ninth Ward, $180.

Richard P. Carter, 1700 N. Register street, Fireman, Eighth Ward, $150.

John Ives, 302 Rose street, Janitor and Fireman, colored, Eleventh Ward, $114; $31.50 for fires.

## COLORED GRAMMAR SCHOOL No. 2.

George Rogers, 515 Robert street, Principal, Twelfth Ward, $1500.

C. Bertram Feig, 1621 N. Caroline street, First Assistant, Seventh Ward, $900.

Julia B. Daugherty, 831 E. Chase street, Second Assistant, Eighth Ward, $516.

Julia F. A. Hufnagel, 741 N. Central avenue, Third Assistant, Fifth Ward, $504.

Eleanor M. Dudley, 1113 Bolton street, Third Assistant, Twelfth Ward, $504.

Ethel R. Gray, 2111 Maryland avenue, Third Assistant, Twenty-second Ward, $504.

Nancy Jenkins, 2219 McElderry street, Janitress, colored, Sixth Ward, $216; $43.75 for fires.

COLORED GRAMMAR SCHOOL No. 3.

W. Edward F. Taylor, 912 Harlem avenue, Principal, Fourteenth Ward, $1500.

Mary L. McNicholl, 3 N. Calhoun street, First Assistant, Nineteenth Ward, $672.

Annie J. Burgan, 807 W. North avenue, Second Assistant, Twelfth Ward, $516.

Lillie M. Buck, 1823 W. Lexington street, Third Assistant, Nineteenth Ward, $504.

Helen G. Hardesty, 1832 W. Lanvale street, Assistant to Principal, Nineteenth Ward, $504.

Sallie O. McBride, 1057 W. Fayette street, Third Assistant, Fourteenth Ward, $504.

Flora Goldsmith, 2117 Linden avenue, Third Assistant, Seventeenth Ward, $504.

Fannie S. Bennett, 135 W. Lee street, Third Assistant, Fifteenth Ward, $444.

Mary Edwards, 25 E. Hill street, Janitress, Fifteenth Ward, $240; $35 for fires.

COLORED GRAMMAR SCHOOL No. 4.

Geo. W. Biddle, 1326 Calhoun street, Principal, colored, Nineteenth Ward, $1296.

M. Louise Smith, 213 W. Hill street, Assistant, colored, Fifteenth Ward, $504.

Mary Williams, 1213 Whatcoat street, Janitress, colored, Nineteenth Ward, $120.

MALE COLORED SCHOOL No. 1.

William Griffith, 512 N. Gilmor street, Principal, Fourth Grade, Nineteenth Ward, $900.

Joseph W. Gibson, 1732 W. Fayette street, Assistant, Second Grade, Nineteenth Ward, $700.

Mary B. Kolb, 425 E. North avenue, Assistant, First Grade, Eighth Ward, $504.

Florence M. Holliday, 1101 N. Stricker street, Assistant, Third Grade, Twentieth Ward, $468.

Minnie E. Reese, 1371 N. Stricker street, Assistant, First Grade, Twentieth Ward, $468.

Rebecca Eunick, 411 Perry street, Janitress, Sixteenth Ward, $144; $38 for fires.

MALE COLORED SCHOOL No. 2.

J. Newton Wicks, 945 W. Lombard street, Assistant, Thirteenth Ward, $700.

Mary A. McDermott, 624 N. Calvert street, Assistant, Ninth Ward, $468.

Delia L. Corcoran, 2103 N. Calvert street, Assistant, First Grade, Twenty-second Ward, $504.

Bella S. Hunter, 934 E. Preston street, Assistant, Seventh Ward, $468.

Mae Eberman, 1606 N. Broadway, Assistant, Seventh Ward, $432.

Adelaide Guggenheimer, 1737 Park avenue, Assistant, Twelfth Ward, $408.

M. Virginia Martien, 2508 N. Charles street, Assistant, Twenty-second Ward, $408.

Abraham Brown, 627 Spring street, Janitor and Fireman, colored, Fifth Ward, $144; $31.50 for fires.

## MALE COLORED SCHOOL No. 3.

John L. Yater, Waverly, Principal, Grammar, Twenty-second Ward, $900.

Charles C. Plitt, 1706 Hanover street, Assistant, Primary, Seventeenth Ward, $700.

Maria A. Roberts, 1522 N. Caroline street, Assistant, Primary, Seventh Ward, $504.

Carrie Edmondson, 213 W. Fayette street, Assistant, Primary, Ninth Ward, $468.

Emma V. Johnson, Parkwyth avenue, Assistant, Primary, Twenty-second Ward, $468.

Susie W. Adams, 401 E. Lanvale street, Assistant, Grammar, Eighth Ward, $468.

Alice V. Martin, 1504 W. Franklin street, Assistant, Primary, Nineteenth Ward, $468.

May Franke, 702 N. Arlington avenue, Assistant, Grammar, Fourteenth Ward, $432.

Marian Price, 732 N. Gilmor street, Assistant, Primary, Nineteenth Ward, $408.

Florence Henry, 1140 N. Carey street, Assistant, Primary, Twentieth Ward, $408.

Delma Thomas (temporary), 419 E. Hamburg street, Assistant, Primary, Fifteenth Ward, $408.

Charles H. Ennis, 231 W. Hill street, Fireman, colored, Fifteenth Ward, $240.

C. Romoser, southeast corner Sharp and Hill streets, Janitress, Fifteenth Ward, $204.

## MALE COLORED SCHOOL No. 4.

John E. Broadbelt, 1222 E. North avenue, Principal, Grammar, Twenty-second Ward, $900.

Harry L. Wiesner, 824 Sharp street, First Assistant, Grammar, Fifteenth Ward, $700.

A. Virginia Broadbelt, 1222 E. North avenue, Assistant, Primary, Twenty-second Ward, $408.

Grace Hausman, 508 Twentieth street, Assistant, Primary, Twenty-second Ward, $408.

Mary E. Johnson, 325 W. Biddle street, Assistant, Primary, Eleventh Ward, $468.

Gussie C. Maloy, 1020 McCulloh street, Assistant in Beginners', Twelfth Ward, $504.

May F. Martin, 503 N. Schroeder street, Assitant, Primary, Tenth Ward, $408.

Maude Robins, 909 Gilmor street, Assistant, Primary, Nineteenth Ward, $468.

Dora May Sindall, 1407 Druid Hill avenue, Assistant, Primary, Twelfth Ward, $408.

Mary W. Storke, 1109 Madison avenue, Assistant, Primary, Twelfth Ward, $468.

Margaret J. Thompson, 714 W. Mulberry street, Assistant in Beginners', Tenth Ward, $504.

Mary F. Brown, 806 Tessier street, Janitress, colored, Eleventh Ward, $36.

Alice Reynolds, 906 Brevard street, Janitress, Eighth Ward, $144; $31.50 for fires.

## MALE COLORED SCHOOL No. 5.

Clifton D. Benson, 34 Parkin street, Principal, Thirteenth Ward, $804.

Henry Manken, Jr., 310 S. Broadway, temporary, Third Ward, $700.

Jeannette Mintz, 205 Harrison street, Assistant, Ninth Ward, $408.

Katherine F. Muesse, 1251 N. Broadway, Assistant, Seventh Ward, $468.

Laura E. Schertlen, 1952 W. Pratt street, Assistant, Eighteenth Ward, $408.

Ella Frostburg, 413 S. Bond street, Janitress, Second Ward, $132; $26.25 for fires.

## MALE COLORED SCHOOL No. 6.

John H. H. Maenner, Belview avenue, West Arlington, Principal, Twenty-first Ward, $900.

Jesse Vinton Hobbs, 1331 N. Stricker street, First Assistant, Nineteenth Ward, $700.

Cora E. Graman, 2525 Pennsylvania avenue, Assistant in Beginners' Grade, Twenty-first Ward, $504.

Tibitha Clagett, 1720 N. Calhoun street, Assistant, Twentieth Ward, $408.

Charlotte Saumenig, 816 W. Lombard street, Assistant, Thirteenth Ward, $408.

Irene Cooke, 339 Bloom street, Assistant, Twelfth Ward, $408.

Joseph A. Watts, 920 Warner street, Janitor, colored, Sixteenth Ward, $144; $31.50 for fires.

## MALE COLORED SCHOOL No. 7.

Albert D. Clark, 1528 Baker street, Principal, Twentieth Ward, $900.

Charles H. Behn, 905 McCulloh street, First Assistant, Eleventh Ward, $700.

Marion L. Reede, 833 George street, Assistant, First Grade, Tenth Ward, $504.

Mary E. Wirth, 1901 W. Lafayette avenue, Assistant, Grammar, Nineteenth Ward, $468.

Pauline E. Jones, 525 N. Mount street, Assistant, Primary Grade, Nineteenth Ward, $468.

Lillie L. Mehlgarten, 761 W. Lexington street, Assistant, Primary Grade, Thirteenth Ward, $432.

Ovena B. Heller, 1712 Madison avenue, Assistant, Primary Grade, Twelfth Ward, $408.

Laura L. Tydings, 513 N. Carrollton avenue, Assistant, Primary Grade, Fourteenth Ward, $468.

Florence M. Groh, 1102 Hopkins avenue, N. E., Assistant, Primary Grade, Seventh Ward, $408.

Helen D. Miller, 134 W. Lanvale street, Assistant, Primary, Twelfth Ward, $408.

Minnie Tolson, 213 E. Twenty-third street, Assistant, Primary, Twenty-second Ward, $——.

Edward F. Callahan, 10 S. Fremont avenue, Fireman, Thirteenth Ward, $180.

Margaret Sneeds, 3 Lemon street court, Janitress, colored, Thirteenth Ward, $192; $10.50 for fires.

## MALE COLORED SCHOOL No. 8.

A. J. Brown, Harford and Erdman, Principal, Twenty-second Ward, $900.

Wm. O'Van Horn, 118 Third avenue, First Assistant, Twenty-first Ward, $700.

Kate Dawson, 818 E. Preston street, Assistant, First Grade, Eighth Ward, $504.

Mary C. Hogan, 500 E. Eager street, Assistant, Eighth Ward, $468.

Lizzie Ward, 1044 Valley street, Assistant, Eighth Ward, $468.

Martha A. Cook, 907 Hopkins avenue, Assistant, Seventh Ward, $468.

Mary E. Mitchell, 1504 N. Caroline street, Assistant, Seventh Ward, $468.

Alice E. Cooper, 1730 E. Townsend street, Assistant, Seventh Ward, $468.

Mary A. Hynes, 1542 Aisquith street, Assistant to Principal, Eighth Ward, $432.

James P. Hall, 1008 N. Wolfe street, Janitor, colored, Seventh Ward, $228; $64.75 for fires.

## MALE COLORED SCHOOL No. 9.

Jacob C. Nicholson, 331 W. Henrietta street, Principal, colored, Sixteenth Ward, $900.

Daniel C. Creditt, 420 N. Pine street, Assistant, colored, Eleventh Ward, $700.

Ellen L. Anderson, 303 Courtland street, Assistant, First Grade, colored, Ninth Ward, $504.

Henry G. Browne, 507 N. Central avenue, Assistant, colored, Fifth Ward, $468.

Charles H. Anderson, 816 Hopkins avenue, Assistant, colored, Seventh Ward, $468.

Walter Scott, 545 W. Hoffman street, Assistant, colored, Eleventh Ward, $468.

Edward E. Reed, 207 Myrtle avenue, Assistant, colored, Tenth Ward, $468.

A. Adelaide Fossett, 534 W. Dolphin street, Assistant, colored, Eleventh Ward, $468.

Susan A. Spriggs, 511 S. Green street, Assistant, colored, Sixteenth Ward, $468.

Cecelia Watkins, 608 W. Hoffman street, Assistant, colored, Twentieth Ward, $468.

Ella R. Browne, 1351 N. Calhoun street, Assistant, colored, Twentieth Ward, $432.

Mary R. Martin, 580 W. Biddle street, Assistant, colored, Eleventh Ward, $432.

Louise B. Lynch, 607 Greenwillow street, Assistant, colored, Eleventh Ward, $432.

Henry B. Harris, 1211 Jefferson street, Assistant, colored, Fifth Ward, $432.

Rose M. Murphy, 1336 N. Carey street, Assistant, colored, Twentieth Ward, $432.

Edward Monroe, Mount Winans, Assistant, colored, $432.

Edgar H. Braxston, 535 W. Hoffman street, Assistant, colored, Eleventh Ward, $408.

Charles H. Gilles, 808 Woodyear street, Fireman, colored, Twentieth Ward, $300.

Margaret J. Bond, 1526 Argyle avenue, Janitress, colored, Twentieth Ward, $216.

Eliza A. Brown, 1351 N. Calhoun street, Janitress, colored, Twentieth Ward, $168; $49 for fires.

COLORED GRAMMAR AND PRIMARY SCHOOL No. 10.

Garrison D. Trusty, 1425 McElderry street, Principal, colored, Sixth Ward, $1296.

William H. Murray, 536 W. Preston street, First Assistant, colored, Eleventh Ward, $900.

Georgine B. Kelly, 413 Aisquith street, Second Assistant, colored, Fifth Ward, $516.

Lucy B. Corbin, 1333 Upton street, Third Assistant, colored, Twentieth Ward, $444.

Mary E. Davis, 1129 Druid Hill avenue, Third Assistant, colored, Twelfth Ward, $444.

Florence M. Gray, 639 Stirling street, in charge of Beginners, colored, Fifth Ward, $504.

Susie R. Stewart, 411 Mott street, Assistant, colored, Fifth Ward, $468.

Annie L. Martin, 580 W. Biddle street, Assistant, colored, Eleventh Ward, $432.

Mary E. Cooper, Grantley, Walbrook, Assistant, colored, Twenty-first Ward, $432.

Mary F. Bailey, 1136 Druid Hill avenue, Assistant, colored, Eleventh Ward, $432.

Veronica B. Saunders, 516 St. Mary's street, Assistant, colored, Eleventh Ward, $432.

John C. Anderson, 712 Linden avenue, Assistant, colored, Eleventh Ward, $468.

Florence R. Hughes, 519 St. Paul street, Assistant, colored, Ninth Ward, $408.

James C. Johnson, 661 George street, Assistant, colored, Eleventh Ward, $408.

John W. Simms, 2221 Hunter's alley, Fireman, colored, Twenty-second Ward, $480.

Ida V. Downing, 2311 Morton, Janitress, colored, Twenty-second Ward, $204.

FEMALE COLORED SCHOOL No. 1.

Gertrude Mitchell, 2403 Maryland avenue, Principal, Twenty-second Ward, $696.

Mary A. Larkins, 747 E. Preston street, Assistant, First Grade, Eighth Ward, $504.

Gertrude Darden, 755 W. Lexington street, Assistant, Tenth Ward, $468.

Edna M. King, 411 N. Carrollton avenue, Assistant, Fourteenth Ward, $432.

Helen T. Peters, 1001 Edmondson avenue, Assistant, Fourteenth Ward, $432.

Annie Barnes, 1230 N. Eden street, Assistant, Seventh Ward, $408.

Annie Bryan, 1734 N. Calhoun street, Assistant, Twentieth Ward, Substitute.

Loretta Donahue, 1238 E. North avenue, Assistant, Twenty-second Ward, Substitute.

Richard Carter, 1700 Register street, Fireman, $150.

John Ives, 907 N. Eutaw street, Janitor, colored, Twelfth Ward, $192; $8.75 for fires.

## FEMALE COLORED SCHOOL No. 2.

Julia G. Quirk, 1430 N. Eden street, Principal, Eighth Ward, $696.

Mary V. Langley, 1302 E. Monument street, Assistant, Fifth Ward, $468.

Marion H. Moore, 1228 N. Eden street, Assistant, Seventh Ward, $468.

Barbara L. Morse, 638 N. Carey street, Beginners, Nineteenth Ward, $504.

Harriet V. Mahaffey, 14 E. Lanvale street, Assistant, Eighth Ward, $468.

Harriet H. Hofflen, 1204 McCulloh street, Assistant, Twelfth Ward, $408.

Ruby A. Fuchs, 323 Washington street, Annex, Assistant in Fourth Grade Grammar, Twenty-second Ward, $408.

Abraham Brown, 627 N. Spring street, Janitor, colored, Fifth Ward, $144; $42 for fires.

## FEMALE COLORED SCHOOL No. 3.

Mary E. Beaufort, 1214 Eutaw Place, Principal, Twelfth Ward, $696.

Nellie M. Shea, 817 W. Mulberry street, Assistant, First Grade, Tenth Ward, $504.

Ella N. Waldenburg, 811 York road, Assistant, Primary, Twenty-second Ward, $468.

Rosa H. Klotz, 225 W. Pratt street, Assistant, Primary, Ninth Ward, $468.

Mamie F. Houry, 1418 W. Lanvale street, Assistant, Primary, Twentieth Ward, $432.

Carrie I. Meeks, 1705 Edmondson avenue, Assistant, Primary, Nineteenth Ward, $432.

Rachel Cohen, 1806 Madison avenue, Assistant, Grammar, Twelfth Ward, $408.

Lillie M. Feig, 1621 N. Caroline street, Assistant, Primary, Seventh Ward, $408.

Grace B. Norris, 1600 W. Lafayette avenue, Assistant, Primary, Twentieth Ward, $408.

Mary L. Broening, 16 W. Lee street, temporary, Fifteenth Ward, $408.

Florence Stewart, 20 E. Montgomery street, temporary, Fifteenth Ward, $408.

Wm. Chas. H. Ennis, Fireman, $240.

Fannie Read, Janitress, $204.

FEMALE COLORED SCHOOL No. 4.

Charlotte W. Reed, 516 N. Fremont avenue, Principal, Tenth Ward, $696.

Marian B. Stansbury, 828 N. Mount street, Assistant, Nineteenth Ward, $468.

Ida A. Mackee, 1401 Druid Hill avenue, Assistant, First Grade, Twelfth Ward, $504.

Maggie Crowley, 411 N. Schroeder street, Assistant, Fourteenth Ward, $468.

Emma J. Hoffman, 738 George street, Assistant, Twentieth Ward, $468.

Mary E. Mathews, 144 Mosher street, Assistant, Twelfth Ward, $468.

Carrie M. Townshend, 643 N. Fulton avenue, Assistant, Nineteenth Ward, $468.

Caroline E. Monroe, 412 E. Twenty-second street, Assistant, Twenty-second Ward, $468.

Marietta Donovan, Clifton avenue, between Ninth and Tenth streets, Assistant, Twenty-first Ward, $468.

Bertha L. Russell, 517 E. Thirtieth street, Assistant, temporary, Twenty-second Ward, $408.

Clara Pratt, 520 W. Lanvale street, Janitress, colored, Twelfth Ward, $144; $42 for fires.

FEMALE COLORED SCHOOL No. 5.

Ella K. Younger, 1512 Retreat street, Principal, Twenty-first Ward, $696.

Annie G. Wells, 1722 E. Lanvale street, Assistant, Seventh Ward, $504.

Minnie L. Moore, 732 W. Fayette street, Assistant, Thirteenth Ward, $468.

Mary E. Moores, 207 E. Twenty-third street, Assistant, Twenty-second Ward, $468.

Elizabeth N. Stowell, 819 N. Fremont avenue, Assistant, Twentieth Ward, $432.

Mary E. Gage, 1512 Retreat street, Assistant, Twenty-first Ward, $408.

Elizabeth Harris, 320 S. Caroline street, Janitress, Third Ward, $132; $42 for fires.

FEMALE COLORED SCHOOL No. 6.

Eliza G. Gainor, 2432 Druid Hill avenue, Principal, Grammar, Twenty-first Ward, $696.

Lillian Hulse, 2219 Wilkens avenue, Assistant, Primary, Eighteenth Ward, $468.

Florence V. Truitt, 1036 W. Fayette street, Assistant, First Primary, Nineteenth Ward, $504.

Alethea S. Robinson, 1613 Edmondson avenue, Assistant, Primary, Twentieth Ward, $408.

Daisy F. White, 1432 Harlem avenue, Assistant, Primary, Twentieth Ward, $408.

A. Grace Andrew, 2100 Druid Hill avenue, Assistant, Primary, Twelfth Ward, $468.

Joseph A. Watts, 920 Warner street, Janitor, colored, Sixteenth Ward, $144; $31.50 for fires.

FEMALE COLORED SCHOOL No. 7.

Marian L. Symmes, 734 N. Fulton avenue, Principal, Twentieth Ward, $696.

Marian V. Price, 1331 W. Mosher street, Assistant, Primary, Twentieth Ward, $468.

Ida L. Seibert, 710 N. Mount street, Assistant, Grammar, Twentieth Ward, $468.

Edith J. Blake, 1235 N. Broadway, Assistant, First Grade, Seventh Ward, $504.

Ella V. Stewart, 424 N. Arlington avenue, Assistant, Grammar, Fourteenth Ward, $468.

Emma O. Elder, 1121 Mulberry street, Assistant, Primary, Fourteenth Ward, $468.

B. May Sutor, 1134 Argyle avenue, Assistant, Grammar, Twentieth Ward, $468.

Mary O. Coyle, 103 N. Carrollton avenue, Assistant, Primary, Fourteenth Ward, $468.

Tillie Laubheimer, 737 W. Baltimore street, Assistant, Grammar, Thirteenth Ward, $432.

Carrie V. Glanding, 1630 W. Fayette street, Assistant, Primary, Nineteenth Ward, $432.

Bettie T. Mansfield, 1811 Edmondson avenue, Assistant, Primary, Twentieth Ward, $432.

Amelia C. Wegner, 1430 Presstman street, Assistant, Primary, Twentieth Ward, $468.

Carrie W. Jarrett, 2125 McCulloh street, Assistant, Primary, Twelfth Ward, $468.

Maud Goldsmith, 2117 Linden avenue, Assistant, Primary, Twenty-first Ward, $408.

Annette Jordan, 1334 Myrtle avenue, Assistant, Primary, Twentieth Ward, $408.

Susie Toner, 124 W. Twenty-fourth street, Assistant, Primary, Twenty-second Ward, $468.

Edward F. Callahan, 10 S. Fremont street, Fireman, Thirteenth Ward, $180.

Jennie Broughton, 927 Pierce street, Janitress, colored, Tenth Ward, $192; $14 for fires.

## FEMALE COLORED SCHOOL No. 8.

Ada E. Kilner, 501 N. Carrollton avenue, Principal, and Teacher of Fourth Grade, Fourteenth Ward, $696.

Helen Johnston, 1304 N. Caroline street, Assistant, Third Grade, Seventh Ward, $468.

Delia T. Lester, 932 E. Preston street, Assistant, and regularly appointed Teacher of Beginners' Grade, Seventh Ward, $504.

Loula Matthews, 2200 Oak street, Assistant, Third Grade, Twenty-second Ward, $468.

Annie F. Harrigan, 1337 N. Bond street, Assistant, Second Grade, Seventh Ward, $468.

Florence M. Parke, 2231 Guilford avenue, Assistant, Second Grade, Twenty-second Ward, $468.

Rose I. Conway, 1607 N. Caroline street, Assistant, Special Assistant to Principal, Seventh Ward, $468.

Eva C. Ward, 1002 Clifton Place, Assistant, Advanced First Grade, Eighth Ward, $468.

Lizzie Swearer, 1416 N. Bond street, Assistant, Beginners' Grade, Seventh Ward, $468.

Bessie Haskell, 1708 Hollins street, Assistant, Beginners' Grade, temporary, Eighteenth Ward, $408.

James D. Hall, 1008 N. Wolfe street, Janitor, colored, Seventh Ward, $180; $56 for fires.

## FEMALE COLORED SCHOOL No. 9.

Fannie L. Barbour, 933 Argyle avenue, Principal, colored, Eleventh Ward, $696.

Nannie B. Grooms, 523 W. Lanvale street, Teacher in charge of First Grade, colored, Eleventh Ward, $504.

Violet B. Thompson, 221 W. Biddle street, Second Assistant, colored, Eighth Ward, $468.

D. Gertrude Anderson, 303 Courtland street, Second Assistant, colored, Ninth Ward, $468.

Florence E. Matthews, 241 Richmond street, Second Assistant, colored, Eleventh Ward, $468.

Lillian H. Trusty, 1357 N. Calhoun street, Second Assistant, colored, Twentieth Ward, $468.

Isabella A. Hall, 1222 Park avenue, Second Assistant, colored, Twelfth Ward, $468.

Estella M. Langley, 1431 Jefferson street, Second Assistant, colored, Sixth Ward, $468.

Nellie A. Tompkins, 1034 Argyle avenue, Second Assistant, colored, Eleventh Ward, $468.

Winifred C. Mason, 1128 Druid Hill avenue, Second Assistant, colored, Eleventh Ward, $468.

Estelle F. Cummings, 424 W. Biddle street, Second Assistant, colored, Eleventh Ward, $432.

Roberta T. Scott, 528 W. Lanvale street, Second Assistant, colored, Twelfth Ward, $432.

Mary E. Rodman, 1359 N. Calhoun street, Second Assistant, colored, Twentieth Ward, $468.

M. Irene Scott, 933 Argyle avenue, Second Assistant, colored, Eleventh Ward, $432.

S. Elizabeth Hitchens, 1427 Jefferson street, Second Assistant, colored, Sixth Ward, $432.

Lillian B. Murphy, 1336 N. Carey street, Second Assistant, colored, Twentieth Ward, $408.

Edna J. Hall, 1019 Druid Hill avenue, Second Assistant, colored, Twelfth Ward, $408.

Lillian M. Thomas, 1234 Etting street, Second Assistant, colored, Eleventh Ward, $408.

Jessie E. Johnson, 775 W. Lexington street, Second Assistant, colored, Tenth Ward, $408.

Mary R. Anderson, 303 Courtland street, Second Assistant, colored, Ninth Ward, $408.

Mary A. Washington, 1137 Stockton street, Janitress, colored, Twentieth Ward, $216.

Chas. H. Gilles, 808 Woodyear street, Fireman, colored, Twentieth Ward, $300.

ANNEX SCHOOL No. 1.

Gertrude M. Bennett, 806 Carrollton avenue, Principal, Twenty-second Ward, $804.

Amelie E. Merz, 1012 Lafayette avenue, First Assistant, Grammar, Twentieth Ward, $600.

Rose Sommerfeld, 2027 Druid Hill avenue, First Assistant, Primary, Twelfth Ward, $504.

Minnie Harms, 1319 N. Central avenue, Second Assistant, Primary, Seventh Ward, $468.

Eleanor A. Dooley, 427 E. Twentieth street, Second Assistant, Primary, Twenty-second Ward, $468.

Anna A. Simonds, 1308 N. Caroline street, Second Assistant, Primary, Seventh Ward, $468.

Bertha A. Wiseman, 703 Greenmount avenue, Second Assistant, Primary, Eighth Ward, $432.

Mary B. Farmer, 838 Aisquith street, Second Assistant, Primary, Fifth Ward, $432.

John Sinclair, 302 Gorsuch avenue, Janitor, Twenty-second Ward, $180.

ANNEX SCHOOL No. 2.

Jos. S. Whittington, 811 Jefferson avenue, Principal, Twenty-second Ward, $1500.

Carroll C. Miller, 509 N. Fulton avenue, First Assistant, Eighteenth Ward, $516.

Eugenia L. Jones, Towson, Baltimore County, Second Assistant, $504.

Natalie D. Hall, 2113 N. Charles street, Third Assistant, Twenty-second Ward, $504.

Clare L'Allemand, 2429 N. Calvert street, Fourth Assistant, Twenty-second Ward, $504.

Luella L. Rankin, 2211 St. Paul street, Fifth Assistant, Twenty-second Ward, $504.

M. Ida Mallonée, 210 Girard avenue, Sixth Assistant, Twenty-second Ward, $504.

Hattie C. Langley, 2503 St. Paul street, Seventh Assistant, Twenty-second Ward, $504.

Amelia E. Joesting, 280 Old York road, Eighth Assistant, Twenty-second Ward, $504.

Mary J. Leonard, 1807 W. Lexington street, Ninth Assistant, $504.

Allie N. Shipley, 413 Waverly avenue, Tenth Assistant, Twenty-second Ward, $504.

Jennie M. Barrett, 723 Gorsuch avenue, Eleventh Assistant, Twenty-second Ward, $504.

Elizabeth M. Foutz, Old York road, Twelfth Assistant, Twenty-second Ward, $504.

Clara V. Bateman, 1021 York road, Thirteenth Assistant, Twenty-second Ward, $504.

Jennie T. Pillsbury, 602 E. Twenty-seventh street, Fourteenth Assistant, Twenty-second Ward, $468.

Lida M. Browne, 408 E. Lafayette avenue, Fifteenth Assistant, Eighth Ward, $468.

Charlotte Clark, 8 Wilson street, Sixteenth Assistant, Twenty-second Ward, $468.

Annie B. Hooper, 1130 Homewood avenue, Seventeenth Assistant, Eighth Ward, $468.

Mary A. Henderson, 1148 York road, Eighteenth Assistant, Twenty-second Ward, $468.

A. Maud Martin, 2026 N. Calvert street, Nineteenth Assistant, Twenty-second Ward, $468.

Miah E. Seitz, 101 E. Twenty-second street, Twentieth Assistant, Twenty-second Ward, $432.

Bertie Hall, 2026 N. Washington street, Twenty-first Assistant, Twenty-second Ward, $432.

Carrie F. Laird, 435 Roland avenue, Twenty-second Assistant, Twenty-first Ward, $432.

Elizabeth Reynolds, 439 Roland avenue, Twenty-third Assistant, Twenty-first Ward, $432.

Grace Bennett, 1355 York road, Twenty-fourth Assistant, Twenty-second Ward, $432.

I. Gertrude Fishach, 432 E. North avenue, Twenty-fifth Assistant, Twenty-second Ward, $432.

Francis Hart, 622 Gorsuch avenue, Janitor, Twenty-second Ward, $360.

Marian Patterson, Brady Mansion, Janitress, Twenty-second Ward, $132; $33.25 for fires.

MALE GRAMMAR ANNEX SCHOOL No. 3.

Marshall Stitely, 1818 Park avenue, Principal, Twenty-first Ward, $1500.

Ella Harrison, Govanstown, First Assistant, $672.

Drusa Chenoweth, 1028 W. Hopkins avenue, Second Assistant, Twentieth Ward, $516.

Edith Collins, 2448 Maryland avenue, Third Assistant, Twenty-second Ward, $504.

Annie Meushaw, 18 E. Lanvale street, Third Assistant, Eighth Ward, $504.

Carrie Dare, 2433 St. Paul street, Third Assistant, Twenty-second Ward, $504.

Elizabeth Crummer, 608 Lennox street, Third Assistant, Twenty-first Ward, $504.

Nannie L'Allemand, 2429 Calvert street, Third Assistant, Twenty-second Ward, $504.

Sarah Holmes, 2641 Hudson alley extended, Janitress, Twenty-second Ward, $192; $49 for fires.

FEMALE GRAMMAR ANNEX SCHOOL No. 3.

Hannah C. Van Meter, 1728 W. Fayette street, Principal, Nineteenth Ward, $900.

Sudie M. Pole, 2038 Madison avenue, First Assistant, Twelfth Ward, $648.

Mary Y. Pattison, 2100 St. Paul street, Second Assistant, Twenty-second Ward, $504.

Saida A. Wallace, 321 E. Lafayette avenue, Third Assistant, Eighth Ward, $480.

Blanche W. Bantz, 1832 Bolton street, Third Assistant, Twelfth Ward, $480.

Stella Bamberger, 2005 N. Charles street, Third Assistant, Twenty-second Ward, $480.

Estella Delahay, 619 George street, Third Assistant, Eleventh Ward, $480.

Margaret Coulson, 412 E. Lombard street, Third Assistant, Baltimore County, $480.

Clara R. Alford, 14 W. Twenty-first street, Third Assistant, Twenty-second Ward, $480.

Elizabeth Taylor, 2414 Mt. Vernon avenue, Janitress, Twenty-second Ward, $360.

Thos. J. Bowyer, 2467 Belmont avenue, Fireman, Twenty-second Ward, $360.

## FEMALE PRIMARY ANNEX SCHOOL No. 3.

Marion C. Clark, 2202 N. Calvert street, Principal, Twenty-second Ward, $696.

Sadie H. Chandler, 1534 John street, First Assistant, Twenty-second Ward, $468.

Zoe V. Armstrong, Sparrow's Point, Md., Assistant Beginners, $504.

Mary E. Porter, 2404 N. Calvert street, Assistant, Twenty-second Ward, $468.

Isabel P. Gray, 2111 Maryland avenue, Assistant, Twenty-second Ward, $468.

Lina Tarman, 21 W. Twenty-fifth street, Assistant, Twenty-second Ward, $468.

Elizabeth B. Bowerman, 112 W. Twenty-third street, Assistant, Twenty-second Ward, $468.

L. Adeline Hamilton, 2310 N. Calvert street, Assistant, Twenty-second Ward, $432.

M. Belle Myers, 2028 N. Calvert street, Assistant, Twenty-second Ward, $468.

Mary Cochran, 2807 Hampden avenue, Janitress, Twenty-second Ward, $360.

Thomas J. Bowyer, 2467 Belmont avenue, Fireman, Twenty-second Ward, $360.

ANNEX SCHOOL No. 4.

Marie C. Bartholow, 445 E. Twenty-fifth street, Principal, Twenty-second Ward, $696.

Belle Forien, 303 Falls road, Assistant, Beginners' Grade, Twenty-second Ward, $504.

Lillie M. Snyder, 924 Second avenue, Assistant, Twenty-second Ward, $468.

Mary Kelly, 404 Falls road, Assistant, Twenty-first Ward, $468.

Ella Ijams, 326 Falls road, Assistant, Twenty-first Ward, $468.

Rosalie E. Gardner, 512 Roland avenue, Assistant, Twenty-second Ward, $468.

Odo Grimm, 528 Fifth street, Assistant, Twenty-second Ward, $468.

Blanche Doll, 1518 W. Fayette street, Assistant, Nineteenth Ward, $468.

Rachel Gilpatrick, 200 Carroll avenue, Assistant, Twenty-second Ward, $468.

Josephine Wilson, 1325 W. Lanvale street, Assistant, Twentieth Ward, $468.

Grace Millar, 1313 N. Caroline street, Assistant, Seventh Ward, $408.

Sarah Dennis, 600 Elm avenue, Janitress, Twenty-second Ward, $276.

ANNEX SCHOOL No. 5.

Ella R. Phillips, 706 Roland avenue, Principal, Twenty-second Ward, $696.

Florence T. Williams, 2315 N. Charles street, Assistant, First Grade, Twenty-second Ward, $504.

R. Adele Gent, 329 E. Lafayette avenue, Assistant, Eighth Ward, $468.

Laura K. Bond, 729 Gorsuch avenue, Assistant, Twenty-second Ward, $432.

Maggie C. Welsh, 518 Oliver Place, Assistant, Twenty-second Ward, $468.

Rosalie Caples, 1505 Madison avenue, Assistant, Twelfth Ward, $468.

Alice G. Bucher, 729 Jefferson street, Assistant, Twenty-second Ward, $468.

Regina Whitney, 1102 Forest Place, Assistant, Eighth Ward, $468.

F. X. Noel, 516 Oliver Place, Janitor, Twenty-second Ward, $156; $43.75 for fires.

ANNEX SCHOOL No. 6.

Thomas O'Hara, 2 North avenue, Principal, Twenty-second Ward, $1500.

Maggie Fitzgerald, 2012 Barclay street, First Assistant, Twenty-second Ward, $672.

Florence Loane, 1234 N. Eden street, Second Assistant, Seventh Ward, $516.

Jennie Smyth, 1729 W. Lanvale street, Third Assistant, Nineteenth Ward, $504.

Emma Thomas, 295 Chestnut avenue, Third Assistant, Twenty-second Ward, $504.

Sallie Holston, 715 Roland avenue, Third Assistant, Twenty-second Ward, $504.

Alice Emory, 342 E. Twenty-second street, Third Assistant, Twenty-second Ward, $504.

Ellen McFaul, 514 Roland avenue, Third Assistant, Twenty-second Ward, $504.

Elizabeth Bell, Woodberry avenue, Third Assistant, Twenty-first Ward, $504.

Thomas Shipley, 4 First street, Fireman, Twenty-second Ward, $360.

## ANNEX SCHOOL No. 7.

Robert C. McGinn, 124 W. Twenty-second street, Principal, Grammar, Twenty-second Ward, $1500.

Alice Jean, 7 Woodberry avenue, First Assistant, Grammar, Twenty-first Ward, $672.

Clara D. Custis, 1801 Guilford avenue, Assistant, Grammar, Eighth Ward, $516.

Emma B. Kailer, 3 Clipper Heights, Assistant, Grammar, Twenty-first Ward, $504.

Annie C. Williams, 254 Carroll street, Assistant, First Grade, Twenty-first Ward, $504.

Cora M. German, 15 Woodberry avenue, Assistant, Primary, Twenty-first Ward, $468.

Susanna Bailey, 36 Woodberry avenue, Assistant, Primary, Twenty-first Ward, $468.

Vallie E. Smith, 263 Roland avenue, Assistant, Primary, Twenty-second Ward, $468.

Marcella Atkinson, 2520 Druid Hill avenue, Assistant, Primary, Twenty-first Ward, $468.

Stella W. Hazeltine, 1323 Argyle avenue, Assistant, Primary, Twentieth Ward, $432.

John Hamilton, 52 Brick hill, Fireman and Janitor, Twenty-first Ward, $444.

## ANNEX SCHOOL No. 8.

Ephraim G. Gover, 219 N. Calhoun street, Principal, Grammar, Nineteenth Ward, $1500.

Ida P. Barton, 1434 Lanvale street, First Assistant, Twentieth Ward, $672.

Belle C. Bankhead, 419 N. Carey street, Second Assistant, Nineteenth Ward, $516.

Agnes Andrews, 922 Milton Place, Assistant, Tenth Ward, $504.

Emma F. Welch, 1414 McCulloh street, Assistant, Twelfth Ward, $504.

Cora McG. Tennant, 558 Presstman street, Assistant, Twelfth Ward, $504.

E. Gertrude Buck, 810 N. Calhoun street, Assistant, Twentieth Ward, $504.

Bertie Thomas, 2013 W. North avenue, Assistant, Twenty-first Ward, $504.

Lottie R. Chapman, 805 N. Gilmor street, Assistant, Twentieth Ward, $504.

A. Grace Kennedy, 403 E. Twenty-fourth street, Assistant, Twenty-second Ward, $504.

Mollie DuVal, 519 Presstman street, Primary, Twelfth Ward, $504.

Stella A. Snyder, Fulton and Pennsylvania avenues, Primary, Twenty-first Ward, $468.

N. Belle Brown, 1108 Mosher street, Primary, Twentieth Ward, $468.

Daisy G. Dunn, 1518 Park avenue, Primary, Twelfth Ward, $468.

Agnes Dunigan, 1151 N. Stricker street, Primary, Twentieth Ward, $468.

S. Lillian Lewis, 513 N. Fremont street, Primary, Tenth Ward, $468.

Ida E. Kretchmer, 1923 W. Lanvale street, Primary, Nineteenth Ward, $468.

Nina M. Duvall, 2020 Linden avenue, Primary, Twenty-first Ward, $432.

Christine Neilson, 921 N. Arlington avenue, Primary, Twentieth Ward, $432.

Mabel C. Schmidt, 911 W. North avenue, Primary, Twelfth Ward, $468.

Florence S. Robinson, 308 W. Lanvale street, Primary, Twelfth Ward, $432.

Emma G. Blanckfard, 1043 N. Caroline street, Primary, Seventh Ward, $432.

Weltha K. Stevens, 1433 Argyle avenue, Primary, Twentieth Ward, $468.

Hannah Bennett, 2533 Mary street, Janitress, Twenty-first Ward, $222.

Celia Grisbach, 2302 Pennsylvania avenue, Janitress, Twentieth Ward, $222.

Edward S. Quick, Oak Hall, Liberty road, Fireman, Twenty-first Ward, $480; $36.50 for fires.

## ANNEX SCHOOL No. 9.

Thomas C. Stringer, 1327 W. Lanvale street, Principal, Twentieth Ward, $1500.

Marion Gibbs, 1100 N. Fulton avenue, First Assistant, Nineteenth Ward, $672.

Bessie Riach, 2425 N. Calvert street, Second Assistant, Twenty-second Ward, $516.

Ella S. Stansbury, Garrison avenue, city, Beginners' Class, Twenty-first Ward, $504.

Harriet E. Worthington, 1835 W. Lexington street, Assistant to Principal, Nineteenth Ward, $504.

Alice E. Reese, 637 N. Carey street, Adv. First, Nineteenth Ward, $468.

Lily E. Andrew, 2100 Druid Hill avenue, Third Grade, Twelfth Ward, $468.

Lelia H. Butler, 532 N. Carrollton avenue, Second Grade, Nineteenth Ward, $432.
Adelaide Evans, 2877 W. Lafayette avenue, Janitress, Twenty-first Ward, $216.
Francis A. Martin, 808 Calverton road, Fireman, Twenty-first Ward, $480.

ANNEX GRAMMAR SCHOOL No. 10.

Rozell Berryman, 1603 McCulloh street, Principal, Twelfth Ward, $1500.
Amie Cullington, 719 N. Carey street, First Assistant, Twentieth Ward, $672.
Emma Thurley, Station G., Second Assistant, Baltimore County, $516.
M. Florence Steinacker, 720 Frederick avenue, Third Assistant, Twenty-first Ward, $504.
George Sorg, 19 Old Frederick road, Janitor, Twenty-first Ward, $120; $24.50 for fires.

ANNEX GRAMMAR SCHOOL No. 11.

Dudley P. Barnette, 14 N. Calhoun street, Principal, Grammar Grades, Nineteenth Ward, $1500.
Pauline E. Reuter, 823 Frederick avenue, First Assistant, Grammar, Twenty-first Ward, $672.
Mary E. Quinlan, 1205 N. Central avenue, Second Assistant, Grammar, Seventh Ward, $516.
M. Nellie Logan, 610 Frederick avenue, Third Assistant, Grammar, Twenty-first Ward, $504.
Lydia E. Webb, 108 Millington avenue, Third Assistant, Grammar, Twenty-first Ward, $504.
E. Alta Milburn, 730 Frederick avenue, Third Assistant, Grammar, Twenty-first Ward, $504.
Helen J. Worley, 2325 Madison avenue, Third Assistant, Grammar, Twenty-first Ward, $504.

Sarah H. Custis, 1801 Guilford avenue, Assistant Beginners' Primary, Eighth Ward, $504.

Mary E. Benson, 218 N. Poppleton street, Assistant, Primary Department, Fourteenth Ward, $468.

Bertha W. Dimling, 616 Frederick avenue, Assistant, Primary Department, Twenty-first Ward, $468.

Bessie M. De Van, 1701 W. Fayette street, Assistant, Primary Department, Nineteenth Ward, $468.

Olive A. Brown, 1704 Mosher street, Assistant, Primary Department, Twentieth Ward, $468.

Berta E. Almony, 231 E. Lafayette avenue, Assistant, Primary Department, Eighth Ward, $432.

Mamie C. Brewer, 1821 W. Baltimore street, Assistant, Primary Department, Eighteenth Ward, $432.

William Steffe, 127 Millington avenue, Fireman, Twenty-first Ward, $480.

Alice Irving, 1859 Ramsey street, Janitress, Eighteenth Ward, $240.

## ANNEX SCHOOL No. 13.

Fred. W. Miller, 934 S. Sharp street, Principal, Sixteenth Ward, $1296.

Matilda Harman, 210 N. Broadway, Vice-Principal, German, Third Ward, $720.

Alice E. Tysinger, 1732 E. Chase street, First Assistant, Grammar, English, Seventh Ward, $648.

Mary D. Erdman, 1831 N. Caroline street, Assistant, Grammar, English, Seventh Ward, $504.

Annie A. McGee, 928 E. Biddle street, Assistant, Grammar, English, Seventh Ward, $504.

Rose Erdman, Harford avenue, Annex, Assistant, Grammar, English, Twenty-second Ward, $504.

Annie M. Dauenhauer, 1108 Homewood avenue, Assistant, Grammar, German, Eighth Ward, $504.

Elizabeth A. Dew, 1327 N. Caroline street, Assistant, Grammar, English, Seventh Ward, $504.

Marion Oliver, 922 Aisquith street, Assistant, Grammar, English, Fifth Ward, $504.

Johanna C. Falk, 1322 N. Washington street, Assistant, First Grade, German, Seventh Ward, $504.

Annie V. Hederman, 905 E. Madison street, Assistant, First Grade, English, Eighth Ward, $504.

Nellie L. O'Connell, 301 E. Twenty-second street, Assistant, Primary, English, Twenty-second Ward, $468.

Rosa Katz, 1423 E. Madison street, Assistant, Primary, German, Fifth Ward, $468.

Elizabeth MacNicholas, 1139 N. Fulton avenue, Assistant, Primary, English, Twentieth Ward, $468.

Alice M. Sickel, 1509 E. North avenue, Assistant, Primary, English, Seventh Ward, $432.

Pauline Pleasants, 303 E. North avenue, Assistant, Primary, English, Eighth Ward, $432.

Louise Holtzman, 1421 E. Madison street, Assistant, Primary, English, Fifth Ward, $432.

Annie L. Donahue, 1238 E. North avenue, Assistant, Primary, English, Twenty-second Ward, $432.

Carrie L. Baker, 420 Roland avenue, Assistant, Primary, English, Twenty-second Ward, $432.

Celia Keiles, 814 E. Fayette street, Assistant, Primary, German, Fourth Ward, $408.

Jas. Logue, 933 Harford avenue, Fireman, Eighth Ward, $480.

Kate A. McGarry, 1411 N. Chester street, Janitress, Sixth Ward, $180.

Sarah J. Wooders, 1513 E. Monument street, Janitress, Fifth Ward, $192; $12.25 for fires.

## ANNEX SCHOOL No. 14.

J. F. McBee, 1531 N. Broadway, Principal, Seventh Ward, $1200.

B. L. Chapman, 2033 Druid Hill avenue, First Assistant, Twelfth Ward, $600.

Maud Didenhover, Green Spring avenue, Beginners, Twenty-first Ward, $504.

Helen Robinson, 513 N. Carrollton avenue, Third Assistant, Eighteenth Ward, $480.

Carrie V. Sponsler, Park Heights avenue, Janitress, Twenty-first Ward, $132; $22.75 for fires.

## ANNEX SCHOOL No. 15.

Thos. C. Bruff, Towson, Baltimore County, Principal, County, $1500.

L. Adele Talbot, 1917 Park avenue, First Assistant, Twenty-first Ward, $672.

Mary E. W. King, 1603 E. Monument street, Second Assistant, Fifth Ward, $516.

Elizabeth M. Matthews, 1101 Madison avenue, Eighth Grade Assistant, Twelfth Ward, $504.

Margaret E. Chism, W. North avenue, Grammar Assistant, Twenty-first Ward, $504.

Bertha P. Gray, 2012 Linden avenue, Grammar Assistant, Twenty-first Ward, $432.

Mary F. Reiley, 1934 Edmondson avenue, Beginners' Grade, Eighteenth Ward, $504.

Edna E. German, 15 Woodberry avenue, Third Grade, Twenty-first Ward, $432.

Blanche E. Snyder, Fulton and Pennsylvania avenues, Second Grade, Twenty-first Ward, $432.

Margaret I. Jaegar, 814 N. Carey street, Adv. First, Nineteenth Ward, $468.

Agusta Olsin, near Tenth street, Walbrook, Janitress, Twenty-first Ward, $216; $10.50 for fires.

George R. Carr, 1810 Thomas avenue, Fireman, Twenty-first Ward, $360.

## MALE ANNEX SCHOOL No. 16.

Isabel Crawford Tudor, 2432 N. Calvert street, Principal, Twenty-second Ward, $696.
Debora Baker, Melvale, Md., Assistant, County, $468.
Eleanor Robb, 1037 N. Eutaw street, Assistant, Twelfth Ward, $504.
Ethel Rittenhouse, 1712 W. Lafayette avenue, Assistant, Nineteenth Ward, $468.
Minna Starr, 2400 N. Charles street, Assistant, Twenty-second Ward, $468.
Fannie Adams, Roland Park, Assistant, County, $468.
Martha Cathcart, 852 W. North avenue, Assistant, Twenty-second Ward, $468.
Grace Matthews, 320 E. North avenue, Assistant, Twenty-second Ward, $468.
Lydia McGee, 2510 York road, Assistant, Twenty-second Ward, $468.
Etta Legg, 1423 John street, Assistant, Twelfth Ward, $468.
Bridget Flaherty, 145 W. Preston street, Janitress, Twelfth Ward, $156.
Mary C. Carpenter, 350 E. Twenty-fourth street, Janitress, Twenty-second Ward, $156.
Bernard Downing, 2511 Morton alley, Fireman, colored, Twenty-second Ward, $240.

## ANNEX SCHOOL No. 17.

Susie Macy, 106 E. Twentieth street, Principal, Twenty-second Ward, $696.
Rhoda E. Steinacker, 720 Frederick avenue, Assistant, Beginners' Grade, Twenty-first Ward, $504.

Minna E. Stiefel, 1001 Frederick avenue, Assistant, Twenty-first Ward, $468.
Mary C. McGovern, 1300 Aisquith street, Assistant, Seventh Ward, $468.
Emma V. Jones, 1921 W. Baltimore street, Assistant, Eighteenth Ward, $432.
Alice E. Wheat, 1036 Hopkins avenue, Assistant, Fourteenth Ward, $432.
Katharine E. Moog, 1349 Gilmor street, Assistant to Principal, Nineteenth Ward, $432.
W. Harry Carr, 30 Caton avenue, Fireman and Janitor, Twenty-first Ward, $516.

MALE GRAMMAR ANNEX SCHOOL No. 18.

Robt. W. Elliott, 217 E. North avenue, Principal, Eighth Ward, $1500.
Henry J. Bothe, 1209 Hanover street, First Assistant, Seventeenth Ward, $900.
Nettie A. Graham, 1805 McCulloh street, Second Assistant, Twelfth Ward, $516.
Mary C. Kerr, 2130 Bolton street, Third Assistant, Twenty-first Ward, $504.
Elizabeth C. Montell, 1533 John street, Third Assistant, Twelfth Ward, $504.
Magdalen H. Burger, 211 Mosher street, Third Assistant, Twelfth Ward, $504.
William H. Sheiblein, 2817 N. Fulton avenue, Fireman, Twenty-first Ward, $720.
Rachel Gilpin, 17 Hill street (Woodberry), Janitress, Twenty-first Ward, $240.

FEMALE GRAMMAR ANNEX SCHOOL No. 18.

Lucie S. Boswell, 2001 Linden avenue, Principal, Twenty-first Ward, $804.

Etta Y. Bready, 726 Lennox street, First Assistant, Twenty-first Ward, $564.

Anna N. Cornelius, 326 E. Lanvale street, Second Assistant, Eighth Ward, $504.

Lilian G. Sands, 507 N. Carey street, Third Assistant, Nineteenth Ward, $480.

Florence E. Bamberger, 2005 N. Charles street, Third Assistant, Twenty-second Ward, $480.

Lula H. Kerr, 2130 Bolton street, Third Assistant, Twenty-first Ward, $480.

Bertha Bilz, 1911 Payson street, Janitress, Twenty-first Ward, $240.

William H. Sheiblein, 2817 Fulton avenue, Fireman, Twenty-first Ward, salary on pay-roll of male department.

ANNEX PRIMARY SCHOOL No. 18.

Adele H. Downing, 1307 Linden avenue, Principal, Twelfth Ward, $696.

Estelle S. Brown, 2111 Callow avenue, Assistant, Twenty-first Ward, $468.

M. Josephine Krager, 639 Carey street, Assistant, First Grade, Nineteenth Ward, $504.

M. Edith Bridener, 2036 Druid Hill avenue, Assistant, Twelfth Ward, $432.

Marie A. W. Martin, 738 North avenue, Assistant, Twenty-first Ward, $432.

Mary V. Johnston, 3011 Pennsylvania avenue, Assistant, Twenty-first Ward, $468.

Wm. H. Sheiblein, 2817 Fulton avenue, Fireman, Twenty-first Ward.

Mrs. Gilpin, 17 Hill street (Woodberry), Janitress, Twenty-first Ward.

Bertha Bilz, 1911 Payson street, Janitress, Twenty-second Ward.

## ANNEX SCHOOL No. 19.

Julia Brayshaw, Woodberry avenue, Principal, Twenty-first Ward, $900.

Etta M. Hyatt, 731 Gorsuch avenue, First Assistant, Grammar, Twenty-second Ward, $600.

Charlotte Wilson, 761 Third avenue, Assistant, Grammar, Twenty-second Ward, $504.

Mary H. Bell, Woodberry avenue, Assistant, First Grade, Primary, Twenty-first Ward, $504.

Lola N. Young, 225 Falls road, Assistant, Primary, Twenty-second Ward, $468.

Jennie Bartlett, 2108 Druid Hill avenue, Assistant, Primary, Twelfth Ward, $432.

Cecilia Burkheart, 714 Church street, Janitress, Twenty-second Ward, $144; $31.50 for fires.

## MALE AND FEMALE ANNEX PRIMARY SCHOOL No. 20.

Laura V. Adreon, 935 N. Mount street, Principal, Nineteenth Ward, $696.

Louise Gilpin, 2402 Maryland avenue, Assistant, Twenty-second Ward, $504.

Bertha Lurman, 2010 Mt. Royal Terrace, Assistant, Twenty-first Ward, $468.

Sadie Strauss, 2020 Madison avenue, Assistant, Twelfth Ward, $432.

Charles A. Foster, 2015 Pulaski street, Janitor, Twenty-first Ward, $120; $28 for fires.

## ANNEX COLORED SCHOOL No. 1.

Heber E. Wharton, 2019 Division street, Principal, colored, Twelfth Ward, $900.

Frances L. Murphy, 1336 N. Carey street, Assistant, First Grade, colored, Twentieth Ward, $504.

Sarah R. Jackson, 802 N. Spring street, Assistant, Second and Third Grade, colored, Seventh Ward, $432.

Sallie B. Hatchett, 609 Campbell street, Assistant, First and Second Grade, colored, Eighteenth Ward, $432.

Jane Lewis, 20 North street, Janitress, colored, Twenty-second Ward, $156; $20.75 for fires.

ANNEX COLORED SCHOOL No. 2.

Constantia B. Brown, 426 N. Gilmor street, Assistant First and Second Grades, colored, Nineteenth Ward, $432.

George B. Murphy, 1336 N. Carey street, Principal, Third, Fourth and Fifth Grades, colored, Twentieth Ward, $900.

Annie V. Randle, 2869 W. Lanvale street, Janitress, Twenty-first Ward, $108; $10.50 for fires.

ANNEX COLORED SCHOOL No. 3.

Annie O. Waters, 919 Valley street, Principal (Primary and Grammar Grades taught), colored, Eighth Ward, $696.

Samuel R. Morsell, 548 W. Lanvale street, First Assistant, colored, Twelfth Ward, $432.

Cora A. Tucker, 540 McMechen street, Second Assistant, colored, Twelfth Ward, $408.

Carrie Matthews, 25 Lohr lane, Janitress, colored, Twenty-second Ward, $108; $15.75 for fires.

## LIQUOR LICENSE COMMISSION.

(Code of 1893, page 1342.)

Louis T. Weis, West Arlington, Commissioner, $2,000.
R. Dorsey Coale, 865 Park avenue, Commissioner, Twelfth ward, $2,000.
T. Frank Tyler, 2424 East Pratt street, Commissioner, Third ward, $2,000.

(Code of 1893, page 1342.)

Thomas S. Hodson, 7 West Lafayette avenue, Counsel, Eighth ward, $1,200.

(Code of 1893, page 1342.)

Warner T. McGuinn, 525 McMechen street, Clerk, Twelfth ward, $1,200.
R. P. Simpson, 609 North Mount street, Clerk, Nineteenth ward, $1,200.
C. F. Moore, 305 West Madison street, Clerk, Eleventh ward, $1,200.

## SUPERVISORS OF ELECTION.

(Laws of Maryland, 1696, page 328.)

Robert H. Smith, 1230 North Calvert street, Supervisor, Eighth ward, $1,500.
J. Berry Turner, 1702 Harlem avenue, Supervisor, Nineteenth ward, $1,500.
Charles H. Carter, 1625 St. Paul street, Supervisor, $1,500.

(Appointed by Supervisors.)

John C. Rose, Paradise, Counsel, $1,200.
Hugh McElderry, 524 North Calhoun street, Chief Clerk, Nineteenth ward, $2,000.
Nelson Spurrier, 2843 West Lafayette avenue, Messenger, Twenty-first ward, $800.
906 Judges of Election, $3 per diem.
302 Return Judges of Election, $3 per diem.
604 Clerks of Election, $3 per diem.

## CRIMINAL COURT.

(Code of 1893, page 100.)

Henry J. Broening, 115 East Montgomery street, Clerk, fees.
Levi S. White, 1118 McCulloh street, Bailiff, $1,500.
John T. Barber, 409 South Collington avenue, Bailiff, $1,500.
Joseph Letzer, 938 Harlem avenue, Bailiff, $1,500.
Albin D. Jones, Irvington, Bailiff, $1,500.
Stephen M. Crane, 1417 West Fayette street, Bailiff, $1,500.

## CRIMINAL COURT No. 2.

(Code of 1893, page 100.)

George J. Kaufman, 2213 Wilkens avenue, Bailiff, $1,500.
Francis A. Ephring, Bailiff, $1,500.
Herman Schapiro, 704 West Fayette street, Bailiff, $1,500.

## CIRCUIT COURT.

(Code of 1893, page 100.)

Barreda Turner, 333 Presstman street, Clerk, fees.
John McNeill, 703 North Calvert street, Bailiff, $1,500.
Charles Eggleston, 1619 North Calvert street, Bailiff, $1,500.
Joseph B. Boyd, 1025 North Stricker street, Watchman, $900.

## CIRCUIT COURT No. 2.

(Code of 1893, page 100.)

Alfred J. Schulz, 506 North Arlington avenue, Clerk, fees.
George W. Golden, 247 South Washington street, Bailiff, $1,500.

William S. Norris, 2205 Guilford avenue, bailiff, $1,500.
John W. Arthur, 1133 West Lombard street, Watchman, $900.

## BALTIMORE CITY COURT.

(Code of 1893, page 100.)

Henry A. Schultz, 707 Harlem avenue, Clerk, fees.
Robert C. Smith, Catonsville, Bailiff, $1,500.
John K. Robinson, 839 West Fayette street, Bailiff, $1,500.
James Howard, 919 Cathedral street, Crier, $1,500.

## BALTIMORE CITY COURT No. 2.

(Code of 1893, page 100.)

Charles E. Grogan, 9 East Centre street, Bailiff, $1,500.
Patrick Reily, 333 North Charles street, Bailiff, $1,500.

## COURT OF COMMON PLEAS.

James H. Livingston, 709 Aisquith street, Clerk, fees. Code of 1893, page 99.
John E. Davis, 815 North Fremont street, Stenographer, $1,500. Code of 1893, page 1321.
George W. Thompson, 206 South Washington street, Bailiff, $1,500. Code of 1893, page 100.
Richard J. Benn, 533 North Chester street, Bailiff, $1,500. Code of 1893, page 100.
William F. Allen, Watchman, $1,000. Code of 1893, page 99.

## SUPREME BENCH.

(Code of 1893, page 553.)

Hon. Henry D. Harlan, 9 West Biddle street, Chief Judge, $5,000.
Hon. Albert Ritchie, 1224 St. Paul street, Judge, $5,000.

J. Upshur Dennis, 1307 North Calvert street, Judge, $5,000.
Charles E. Phelps, Walbrook, Judge, $5,000.
Pere L. Wickes, 920 St. Paul street, Judge, $5,000.
Daniel Girard Wright, 1530 Park avenue, Judge, $5,000.
John J. Dobler, 1125 Valley street, Judge, $5,000.
Henry Stockbridge, Jr., 11 North Calhoun street, Judge, $5,000.
George M. Sharp, 2105 St. Paul street, Judge, $5,000.
Stenographer, when required, $5 per day. Code of 1893, page 1321.

## ORPHANS' COURT.

(Code of 1893, page 94.)

Riley E. Wright, 1318 Harlem avenue, Judge, $9 per day.
J. Henry Naas, 810 North Gilmor street, Judge, $9 per day.
Charles F. Riehl, 2209 Gough street, Judge, $9 per day.

(Code of 1893, page 94.)

Richard T. Brown, 636 West Lee street, Bailiff, $4 per day.

## SUPERIOR COURT No. 1.

Robert Ogle, 1807 West Baltimore street, Clerk, fees. Code of 1893, page 99.
Joseph E. Quinn, 2708 Evergreen Terrace, Bailiff, $1,500. Code of 1893, page 100.
Walter S. Taylor, 231 North Chester street, Bailiff, $1,500. Code of 1893, page 100.
Grayson W. Sharretts, Liberty road, Stenographer, $1,500. Code of 1893, page 1321.
John H. Kirwan, 152 Wilson street, Crier, $1,500. Code of 1893, page 99.
James Callahan, 2001 Bank street, janitor, $420.

## SUPERIOR COURT No. 2.

(Code of 1893, page 100.)

H. McP. Dall, 2 East Franklin, street, Bailiff, $1,500.
James U. Dennis, 902 McCulloh street, Bailiff, $1,500.

## POLICE DEPARTMENT.

Daniel C. Heddinger, Commissioner, President, 2536 Madison avenue, $2,500.
W. W. Johnson, Commissioner, 15 North Broadway, $2,500.
E. M. Schryver, Commissioner, 641 North Calhoun street, $2,500.
Dr. J. E. Heard, Physician, 202 Aisquith street, $900.
Dr. H. H. Goodman, Physician, 1404 Madison avenue, $900.
Dr. C. H. Thomas, Physician, 1312 North Charles street, $900.
Samuel T. Hamilton, Marshal, 7 East Franklin street, Ninth ward, $2,500.
Thomas F. Farnan, Deputy Marshal, 743 West Lombard street, Seventeenth ward, $2,000.
John Swikert, Clerk to Marshal, 5 Pearl street, Tenth ward, $1,300.
Josiah A. Kinsey, Secretary to Board, 227 East Lafayette avenue, Nineteenth ward, $2,000.
Harry A. Bruck, Assistant to Secretary, 1912 East Baltimore street, Sixteenth ward, $1,200.
Solomon H. Freburger, Captain, 1137 West Franklin street, Eighteenth ward, $1,560.
Peter J. Brennan, Detective, 303 Pleasant street, Ninth ward, $1,196.
Albert Gault, Detective, 1538 West Lanvale street, Eighth ward, $1,196.
Mark Hagan, Detective, 703 North Calvert street, Second ward, $1,196.
Thedorick B. Hall, Detective, 2134 Oak street, Twentieth ward, $1,196.

Michael B. Hussey, Detective, 1712 West Franklin street, Fourteenth ward, $1,196.
Thomas F. Hogan, Detective, 1708 East Preston street, First ward, $1,196.
John H. Kratz, Detective, 201 North Chester street, Second ward, $1,196.
Joseph C. Mitchell, Detective, 1710 John street, Eighteenth ward, $1,196.
Thomas P. O'Donnell, Detective, 869 Hollins street, Thirteenth ward, $1,196.
Herman Pohler, Detective, 209 South Ann street, Second ward, $1,196.
John S. Pontier, Detective, 1420 North Bond street, Third ward, $1,196.
Aquilla J. Pumphrey, Detective, 1830 West Saratoga street, Sixteenth ward, $1,196.
George W. Seibold, Detective, 1201 Myrtle avenue, Thirteenth ward, $1,196.
Jessee B. Mobley, Detective, 1506 West Franklin street, Nineteenth ward, $1,196.
William E. Chambers, Detective, 725 North Eutaw street, Eleventh ward, $1,196.
Joseph E. Coughlin, Detective, 906 Canton avenue, First ward, $1,196.

*Eastern District.*

George League, Captain, 1934 McElderry street, First ward, $1,560.
Thomas T. Green, Lieutenant, 921 Fawn street, Second ward, $1,300.
Thomas B. McGee, Lieutenant, 833 Paca street, Sixth ward, $1,300.
James K. P. Langley, Round Sergeant, 221 South Ann street, Third ward, $1,196.
William H. Riefner, Round Sergeant, 5 North Montford avenue, Second ward, $1,196.
P. F. J. Bosch, Sergeant, 1923 East Fayette street, Sixth ward, $1,040.

William C. Schaub, Sergeant, 13 North Caroline street, Third ward, $1,040.
Thomas E. Buckless, Sergeant, 113 North Patterson Park avenue, First ward, $1,040.
Charles B. Potter, Sergeant, 419 South Washington street, Third ward, $1,040.
J. Andrew Roycroft, Sergeant, 1626 East Monument street, Second ward, $1,040.
William M. Jenkins, Sergeant, 1114 Streper street, First ward, $1,040.
John Bachman, 523 South Washington street, Second ward, $936.
Manno A. Behrens, 2117 Bank street, First ward, $936.
George W. Billmire, 121 South Bond street, First ward, $936.
William E. Bowling, 437 North Patterson Park avenue, Third ward, $936.
George W. Burton, 17 North Washington street, Third ward, $936.
Thomas J. Barry, 2203 Bank street, First ward, $936.
Thomas Cadden, 306 South Washington street, First ward, $936.
James T. Casey, 3021 Elliott street, First ward, $936.
C. Wallace Cole, 1758 Bank street, Second ward, $936.
William Connolly, 1506 North Caroline street, First ward, $936.
John T. Connors, 823 Chesapeake street, First ward, $936.
William Cook, 512 North Washington street, Sixth ward, $936.
James A. Crawford, 407 South Collington avenue, First ward, $936.
Peter V. Crogan, 922 Fawn street, Second ward, $936.
John B. Cox, 2206 Gough street, First ward, $936.
John W. Davis, 230 North Chester street, Fourth ward, $936.
John C. Day, 1508 Thames street, Second ward, $936.
George Deinlein, 22 South Castle street, Third ward, $936.

George Dengler, 220 South Bond street, Second ward, $936.
John Donnelly, 324 South Chester street, Second ward, $936.
David Edwards, 1640 East Lombard street, Third ward, $936.
James R. Ennis, 2204 Orleans street, $936.
Levi Eustace, 1505 East Preston street, Second ward, $936.
Charles N. Eser, 222 South Washington street, Third ward, $936.
John P. Flowers, 29 North Montford avenue, $936.
Charles F. Foll, 1810 East Fayette street, Third ward, $936.
Edward B. Freeman, 1933 East Monument street, Sixth ward, $936.
John M. Friedel, 18 South Ann street, Third ward, $936.
Conrad Fritz, 215 South Register street, Third ward, $936.
Ellen Friel, Matron, 2022 East Lombard street, Third ward, $520.
E. Herbert Glenn, 133 Milton avenue, Third ward, $936.
George H. Gordon, 239 South Washington street, Third ward, $936.
Frederick Grebe, 120 South Castle street, Third ward, $936.
Raymond Graff, 315 South Ann street, Second ward, $936.
Joseph T. Graham, 703 South Wolfe street, Fifth ward, $936.
Edwin G. Halstead, 1809 Aisquith street, Third ward, $936.
Andrew J. Hamilton, 2234 East Baltimore street, Third ward, $936.
Archer M. Hepbron, 224 North Collington avenue, $936.
George W. Hutson, 110 South Collington avenue, Third ward, $936.

John Herman, 207 South Caroline street, Third ward, $936.
John H. Jaecksch, 337 South Ann street, First ward, $936.
John T. Johnson, 151 North Patterson Park avenue, First ward, $936.
Albert Keehne, 1711 East Madison street, Fifth ward, $936.
Edw. J. Kelly, 2317 Fairmount avenue, Second ward, $936.
Thomas Kelly, 3025 Elliot street, First ward, $936.
John Kerr, Turnkey, 222 South Bond street, Second ward, $936.
John Kiessling, 324 South Ann street, First ward, $936.
James T. Kiggins, 743 South Luzerne street, First ward, $936.
Emerson King, 1436 Aisquith street, Eighth ward, $936.
George N. Kissner, 1120 Hare street, First ward, $936.
Louis Kloch, 404 South High street, Second ward, $936.
Henry Krause, 1829 Gough street, First ward, $936.
Michael F. Kenealy, 320 South Broadway, Third ward, $936.
Matthew Lubinski, 1010 Hare street, First ward, $936.
William S. Lee, 842 Chesapeake street, First ward, $936.
John Mittendorf, 413 Collington avenue, Sixth ward, $936.
Matthew Miller, 2224 Bank street, Second ward, $936.
Conrad Minderlein, 610 South Chapel street, Second ward, $936.
Philip Miskimmon, 1826 East Fayette street, Third ward, $936.
Albert C. Myers, 2231 Eastern avenue, Second ward, $936.
James J. McLynn, 132 South Ann street, Third ward, $936.

Mary A. McLaughlin, Matron, 2200 East Lombard street, Sixth ward, $520.
Michael V. McGann, 242 Albemarle street, Second ward, $936.
Frank Neubeck, 2111 East Fayette street, Third ward, $936.
John Nix, 220 South Bond street, Second ward, $936.
John G. Nitzel, Jr., 17 North Caroline street, Third ward, $936.
Stephen Nelson, 244 South Washington street, First ward, $936.
Adam G. Rauh, 236 North Patterson Park avenue, Third ward, $936.
John Reth, 512 South Wolfe street, Second ward, $936.
George W. Reynolds, 406 North Ann street, Third ward, $936.
Thomas C. Rochford, Turnkey, 314 South High street, Fourth ward, $936.
John Rose, 105 Milton avenue, First ward, $936.
John Roth, 1429 East Hoffman street, First ward, $936.
Charles A. Rulsey, 2210 Gough street, First ward, $936.
John C. Ritzel, 1752 Orleans street, Sixth ward, $936.
Andrew Schefflein, 825 Canton street, First ward, $936.
August Sommers, 317 South Register street, Second ward, $936.
John Steindle, 2229 Orleans street, Third ward, $936.
Daniel Sylvester, 400 South Caroline street, Second ward, $936.
William C. Schaub, 13 North Caroline street, Third ward, $936.
Conrad H. Schmidt, 512 South Bethel street, Second ward, $936.
William Slitzer, 1907 Canton avenue, Second ward, $936.
George C. Sauer, 1513 East Lombard street, Third ward, $936.
Floyd B. Vane, 25 South Broadway, $936.
Maurice D. Walsh, 2210 Bank street, First ward, $936.

Jacob Wiest, 2423 Eastern avenue, First ward, $936.
John Wilkinson, 17 Collington avenue, Second ward, $936.
Charles Wegman, 220 South Bond street, $936.
John F. Wankmiller, 809 South Ann street, Second ward, $936.

*Northeastern District.*

Philip J. Barber, Captain, 1239 North Bond street, Seventh ward, $1,560.
James H. Carroll, Lieutenant, 1232 Ashland avenue, Third ward, $1,300.
Basil S. Wellener, Lieutenant, 1724 North Bond street, Sixth ward, $1,300.
James A. Clark, Round Sergeant, 1711 East Chase street, Seventh ward, $1,196.
Frederick S. Crate, Round Sergeant, 1112 North Bond street, Seventh ward, $1,196.
William G. Arbin, Sergeant, 304 North Caroline street, Sixth ward, $1,040.
Cornelius J. Carey, Sergeant, 1820 East Chase street, Seventh ward, $1,040.
Augustus Chaillou, Sergeant, 1618 Miller street, Seventh ward, $1,040.
Terrence Hughes, Sergeant, 1403 Aisquith street, Seventh ward, $1,040.
Solomon C. Levie, Sergeant, 1425 Orleans street, Sixth ward, $1,040.
Henry Mittendorf, Sergeant, 1523 North Bond street, Sixth ward, $1,040.
Ambrose A. Ryan, Sergeant, 1210 Harford avenue, Ninth ward, $1,040.
George W. Schafer, Sergeant, 1604 East Madison street, Seventh ward, $1,040.
Lewis Zelmer, Sergeant, 1533 North Washington street, Seventh ward, $1,040.
William H. Austen, 1907 McElderry street, Sixth ward, $936.
John O. Andrew, 515 Oxford street, $936.

August Baker, 1614 Chester street, Sixth ward, $936.
George H. Baker, 1620 North Gay street, Twenty-second ward, $936.
James C. Baker, 1931 Bank street, First ward, $936.
George W. Bandel, 1906 East Lanvale street, Seventh ward, $936.
James H. Boston, 2205 Jefferson street, Fifteenth ward, $936.
Edwin B. Bullock, 1931 East Monument street, Sixth ward, $936.
John H. Brandt, 221 North Bond street, Sixth ward, $936.
Herman Bruns, 827 North Washington street, Sixth ward, $936.
Charles H. Burns, Clerk, 1623 East Monument street, Fifth ward, $936.
John A. Bruff, 1234 North Washington street, Sixth ward, $936.
James Baker, 2046 East Bokee street, Sixth ward, $936.
George L. Campbell, 1806 East Monument street, Eighth ward, $936.
William J. Carrick, 2041 East Fayette street, First ward, $936.
Isaac T. Carter, 1427 North Central avenue, Seventh ward, $936.
Albert L. Christ, 2203 East Biddle street, Seventh ward, $936.
Franklin T. Cross, 1617 East Chase street, Seventh ward, $936.
Antone V. Cvach, 821 North Washington street, Sixth ward, $936.
Thomas C. Dudrow, 835 North Wolfe street, Third ward, $936.
Henry Durkee, 1605 East Monument street, Sixth ward, $936.
Walter W. Deshields, 1023 North Bond street, Seventh ward, $936.
Charles T. Doerr, 127 North Central avenue, Sixth ward, $936.

Robert L. Davis, Budd's Creek, St. Mary's county, $936.
John A. Eppley, 1528 East Preston street, Eleventh ward, $936.
Joseph P. Fallon, 902 East Biddle street, Seventh ward, $936.
Hugh F. Fitzpatrick, 1416 North Gay street, Seventh ward, $936.
John H. Ford, 303 North Caroline street, Sixth ward, $936.
Thomas Ferris, 408 North Washington street, Sixth ward, $936.
Harry J. Foreman, 1516 North Bond street, Seventh ward, $936.
Ferdinand Geisel, 1819 North Gay street, Sixth ward, $936.
Samuel G. Green, 709 Gorsuch avenue, Sixth ward, $936.
Nicholas B. Gatch, 1329 North Central avenue, Seventh ward, $936.
Joseph H. Givvins, 1620 Ashland avenue Seventh ward, $936.
George W. Heath, 1328 North Bond street, Seventh ward, $936.
Samuel H. Heuisler, 1611 North Broadway, Sixth ward, $936.
William H. Hoffman, 1746 East Preston street, $936.
Harry Heineman, 913 East Biddle street, Seventh ward, $936.
Henry C. Jones, 2204 Jefferson street, Sixth ward, $936.
Levin Jones, 1110 East Lanvale street, Eighth ward, $936.
Leonard Joynes, 1425 North Gay street, Seventh ward, $936.
Adam Klingenburg, 236 North Milton avenue, Sixth ward, $936.
Samuel King, Turnkey, 1617 East Monument street, Sixth ward, $936.

John Lehman, 1104 North Bond street, Seventh ward, $936.
James Leverton, 1920 East Madison street, Fifth ward, $936.
Catherine Lewis, Matron, Ashland avenue near Hopkins avenue, Sixth ward, $520.
George E. Lurz, 520 North Washington street, Sixth ward, $936.
Frank A. Marshall, 8 North Washington street, Sixth ward $936.
Max Mauer, 1929 East Monument street, Seventh ward, $936.
Thomas J. D. Mears, 1315 North Bond street, Seventh ward, $936.
James C. Murray, 1815 Hopkins avenue, Fifth ward, $936.
George E. Myers, 2045 Bokee street, Seventh ward, $936.
George P. Meyer, 1429 McElderry street, Sixth ward, $936.
Thomas McGrain, 1606 East Madison street, Twenty-second ward, $936.
Ambrose McIntyre, 917 East Biddle street, Eighth ward, $936.
James McDonald, Turnkey, 1514 North Bond street, Seventh ward, $936.
William O'Keefe, 1209 Ensor street, Sixth ward, $936.
Daniel H. Parlett, 2243 East Biddle street, Twenty-second ward, $936.
Charles Pasterfield, 1744 Ashland avenue, Sixth ward, $936.
Jacob Piercy, 1203 East Preston street, Seventh ward, $936.
Lewis G. Rever, 515 North Washington street, Sixth ward, $936.
John E. Roder, 1216 East Townsend steeet, Seventh ward, $936.
George M. Ruhl, 414 North Ann street, Sixth ward, $936.

William S. Raleigh, 1814 East Baltimore street, Sixth ward, $936.
Frank R. Schaefer, 1512 North Regester street, Seventh ward, $936.
Frederick H. Scherer, 1610 McElderry street, Fifth ward, $936.
Henry A. Schwartzkopf, 945 North Caroline street, Seventh ward, $936.
William B. Scheffer, 1413 East Eager street, Seventh ward, $936.
Charles Spitznagel, 2512 East Fayette street, Sixth ward, $936.
Matthew Sporrer, 1520 North Bond street, Seventh ward, $936.
John E. Sweeney, 807 North Washington street, Sixth ward, $936.
James A. Sparklin, 209 Milton avenue, Sixth ward, $936.
Peter T. Schelle, 526 North Castle street, Sixth ward, $936.
Owen M. Taylor, 1206 Jefferson street, Fifth ward, $936.
John J. Thompson, 1625 North Broadway, Sixth ward, $936.
Edward A. Thompson, 1826 East Chase street, Seventh ward, $936.
George H. Tienkin, 1256 McElderry street, Fifth ward, $936.
William T. Tudor, 2011 East Preston street, Sixth ward, $936.
Henry L. Twele, 200 West Biddle street, Eighth ward, $936.
William A. Treadwell, Harford county, $936.
Margaret S. Vincente, Matron, 1421 North Eden street, Seventh ward, $520.
William L. Warfield, 2028 E. Fayette street, Fifth ward, $936.
Edward D. Weitzell, 1812 East Eager street, Seventh ward, $936.

James W. Wheatley, 1614 North Chester street, $936.
Charles H. Wheeler, 1002 East Biddle street, Fifth ward, $936.
Philip Wittmer, 1747 East Townsend street, Seventh ward, $936.
Frederick F. Youngheim, 922 North Caroline street, Seventh ward, $936.

*Central District.*

Thomas Barranger, Captain, 19 North Ann street, Fifth ward, $1,560.
Edward Schleigh, Lieutenant, 735 East Hoffman street, Ninth ward, $1,300.
Albert L. League, Lieutenant, 1817 East Baltimore street, First ward, $1,300.
Arthur Napier, Lieutenant, 1809 Hopkins avenue, Eighth ward, $1,300.
Stephen J. O'Neill, Lieutenant, 1105 West Lombard street, Eighteenth ward, $1,300.
George G. Henry, Round Sergeant, 1302 Argyle avenue, $1,196.
Charles W. Gittings, Round Sergeant, 1739 East North avenue, $1,196.
Samuel R. Boone, Sergeant, 639 North Broadway, Fifth ward, $1,040.
Francis P. Devon, Sergeant, 500 East North avenue, Ninth ward, $1,040.
James Harvey, Sergeant, 904 Stirling street, Seventh ward, $1,040.
George Hoyle, Sergeant, 112 South Eutaw street, Ninth ward, $1,040.
Thomas P. Kirby, Sergeant, 707 East Biddle street, Eighth ward, $1,040.
Louis Kirsch, Sergeant, 1016 North Bond street, Seventh ward, $1,040.
Charles M. Loane, Sergeant, 1009 Aisquith street, Fifth ward, $1,040.
William J. Lutts, Sergeant, 1105 Barclay street, Fourth ward, $1,040.

George W. Miles, Sergeant, 1425 North Central avenue, Fourth ward, $1,040.
David P. McClelland, Sergeant, 1108 East Monument street, Fifth ward, $1,040.
Henry Shoemack, Sergeant, 623 Stirling street, Ninth ward, $1,040.
Joseph Smith, Sergeant, 8 Fair Oak avenue, Twelfth ward, $1,040.
James E. Smith, Sergeant, 411 Park avenue, $1,040.
Charles M. Cole, Sergeant, 1612 East Townsend street, Fifth ward, $1,040.
John J. Strott, Sergeant, 1509 East Federal street, Fifth ward, $1,040.
Thomas McGrarr, Sergeant, 1108 Clifton Place, Eighth ward, $1,040.
Ernest Schulte, Sergeant, 412 East Fort avenue, Seventeenth ward, $1,040.
James F. Ryan, Sergeant, 1828 Harlem avenue, Nineteenth ward, $1,040.
John L. Barrenger, Sergeant, 1539 Holbrook street, Eighth ward, $1,040.
Ringgold Andrews, 1514 East Eager street, Fifth ward, $936.
Thomas Arthur, 412 East Eager street, Eighth ward, $936.
Edward T. Bafford, 1311 East Madison street, $936.
Henry C. Barget, 860 North Howard street, Eleventh ward, $936.
Philip Behringer, 1824 Canton avenue, Second ward, $936.
Thomas L. Bell, 433 East Lanvale street, Fifth ward, $936.
William G. Biddison, 1118 North Bond street, $936.
James Blake, 839 East Eager street, Eighth ward, $936.
Stephen Bollinger, 110 Chestnut avenue, Hampden, Twenty-second ward, $936.
James B. Boone, 903 Huntingdon avenue, Twenty-first ward, $936.

William J. Borden, 532 North Calvert street, Ninth ward, $936.
Joseph A. Bouchette, 1427 McElderry street, Eighth ward, $936.
Charles E. Bowersox, Woodberry avenue, fourth door west of Parkdale avenue, Twenty-first ward, $936.
Peter B. Bradley, 518 Oliver Place, Twenty-second ward, $936.
Frank H. Bromley, 790 West Saratoga street, $936.
James R. Brown, 2230 Barclay street, Twenty-first ward, $936.
William H. Brown, 932 Aisquith street, Fifth ward, $936.
Daniel B. Buckley, 935 Boyd street, Fourth ward, $936.
William J. Buckley, 411 Courtland street, Ninth ward, $936.
William H. Burgess, 1922 East Madison street, Fifth ward, $936.
Franklin S. Burgan, 1636 East Madison street, Fifth ward, $936.
John P. Burns, 952 Harford avenue, Eighth ward, $936.
John T. Burns, 253 North Central avenue, Fourth ward, $936.
Harry C. Busick, 1523 North Eden street, Fourth ward, $936.
Robert H. Busick, 1424 North Eden street, Fifth ward, $936.
Francis T. Butler, 1514 Aisquith street, Eighth ward, $936.
Bernard D. Byrnes, 721 East Chase street, Fifth ward, $936.
William A. Bryan, 320 Harrison street, Twenty-second ward, $936.
James F. Begnell, 819 William street, Fifteenth ward, $936.
Charles A. Brantigan, 1017 North Dallas street, Seventh ward, $936.

James T. Cain, 2231 East Fayette street, Fifth ward, $936.
Matthew Cain, 113 South High street, Fourth ward, $936.
Richard H. Carberry, 2235 East Chase street, Fifth ward, $936.
John Carloss, 14 West Twentieth street, Fourth ward, $936.
Alexander R. Carr, 318 South Exeter street, Fourth ward, $936.
John A. Casey, 716 East Chase street, Eighth ward, $936.
Patrick Cash, 1314 Homewood avenue, Ninth ward, $936.
Thomas R. Cassiday, 132 Aisquith street, Fourth ward, $936.
Frederick Claus, 1242 North Washington street, Fourth ward, $936.
George B. Clautice, 906 Aisquith street, Eighth ward, $936.
Lewis D. Cole, 1416 North Central avenue, Fourth ward, $936.
Richard Conway, 835 West Barre street, Ninth ward, $936.
Patrick Cooper, 2460 Chrystal avenue, Ninth ward, $936.
John F. Cox, 1329 North Central avenue, Seventh ward, $936.
William J. Crowe, 312 Union avenue, Twenty-first ward, $936.
Jeremiah Cullum, 919 East Preston street, Eighth ward, $936.
Edward Curran, Jr., 203 North Bond street, Fourth ward, $936.
Edward J. Carey, 710 West Fayette street, $936.
Alfred Callender, 1018 North Central avenue, Ninth ward, $936.
Alfred C. Carroll, 1513 East Monument street, Fifth ward, $936.

John T. Carroll, 3422 Chestnut avenue, Twenty-second ward, $936.
Marion D. Caulk, 131 North Gay street, $936.
James M. Daily, 906 Park avenue, Eighth ward, $936.
Harry G. Darling, 233 Eleventh street, Twenty-second ward, $936.
George R. Deaver, 1123 Clifton Place, Eighth ward, $936.
John B. Dorsey, 110 South Central avenue, Fourth ward, $936.
Charles A. Dwyer, 219 West Centre street, Eleventh ward, $936.
Wallace G. Davis, 347 East Twenty-second street, Twenty-second ward, $936.
John J. Delaney, 1034 Valley street, Eighth ward, $936.
Frederick Ehlers, 711 North Eden street, Fifth ward, $936.
George Emerine, 1929 Orleans street, Fifth ward, $936.
Peter Eckell, 1102 McDonogh street, Fifth ward, $936.
John M. Fetsch, 12 Brady avenue, Sixteenth ward, $936.
Michael Fitzgerald, 2109 Barclay street, Twenty-second ward, $936.
Daniel B. Fluskey, 26 South Exeter street, Ninth ward, $936.
William Frederick, 1078 Granby street, Fourth ward, $936.
Thomas J. Frock, 1311 Homewood avenue, Twenty-second ward, $936.
John Furlong, 1422 Holbrook street, $936.
Etta Fay, Matron-at-Large, 1241 East Monument street, $520.
Charles F. Farley, 1721 Aisquith street, Eighth ward, $936.
Joseph J. Fousek, 2247 East Chase street, Sixth ward, $936.
John Gaffney, 1208 Greenmount avenue, Eighth ward, $936.

Timothy Garrity, 514 East Eager street, Eighth ward, $936.

James P. Guinan, 509 Fourth avenue, Hampden, Twenty-second ward, $936.

Charles W. B. Gladden, 6 East Pleasant street, $936.

Douglas V. Hall, 931 Stirling street, Fourth ward, $936.

John J. Healy, 927 East Biddle street, Eighth ward, $936.

William F. Higgins, 1115 Clifton Place, Fifth ward, $936.

Charles C. Hiob, Jenkins lane, thirty-fourth house from North avenue, Twenty-second ward, $936.

Edward J. Hoffman, 836 West Lexington street, Thirteenth ward, $936.

Edward Howe, 708 East Chase street, Eleventh ward, $936.

Michael J. Hughes, 1326 Hillman street, Eleventh ward, $936.

Lloyd Horner, 16 South Eden street, Fourth ward, $936.

Harry Hammersla, 1534 Fulton avenue, Twentieth ward, $936.

Samuel W. House, 642 Pitcher street, Eleventh ward, $936.

Robert Hulse, 1106 Thompson street, Fifth ward, $936.

Tobias Jacobs, 245 Harrison street, Ninth ward, $936.

Andrew Jamison, 1047 North Central avenue, Seventh ward, $936.

Cornelius J. Kane, Turnkey, 512 North Schroeder street, Ninth ward, $936.

Andrew Kaufman, 1309 East Lexington street, Fifth ward, $936.

Nicholas Kehoe, 706 Forrest street, Eighth ward, $936.

Charles E. Kelly, 405 Falls road, Eleventh ward, $936.

John E. Kelly, 1000 Federal street, Eighth ward, $936.

James A. Kelly, 125 South High street, Fourth ward, $936.

Patrick J. Kelly, 903 Valley street, Eighth ward, $936.
Thomas P. Kelly, 537 East Twenty-third street, Eleventh ward, $936.
Ferdinand T. Kidd, 217 Independence street, Twenty-second ward, $936.
William J. Klinefelter, 1106 Greenmount avenue, Eighth ward, $936.
Richard Lamm, 102 Pleasant street, Ninth ward, $936.
Joseph B. Langford, 16 North Eden street, $936.
Charles L. Latham, 9 North Caroline street, Sixth ward, $936.
John V. Leitch, 1622 McElderry street, $936.
James T. Lewis, 600 North Calvert street, Ninth ward, $936.
Alfred Loker, 1011 Linden avenue, Ninth ward, $936.
Jeremiah J. Lynch, 1501 East Lafayette avenue, $936.
William Lancaster, 1439 East Monument street, Fifth ward, $936.
Edward V. Magee, 934 West Lexington street, Fourth ward, $936.
William D. Mahoney, 1206 Ashland avenue, Fourth ward, $936.
Daniel Malone, 1432 North Eden street, Seventh ward, $936.
Patrick H. Malone, 407 Courtland street, Ninth ward, $936.
Jacob E. Miller, 119 South Gilmor street, Fourteenth ward, $936.
Thomas W. Mills, 1111 Barclay street, Fifth ward, $936.
Alexander Mitchell, 1532 Holbrook street, Eighth ward, $936.
Howard J. Moore, 632 North Washington street, $936.
Thomas J. Murray, 1134 Cathedral street, Eleventh ward, $936.
Timothy E. Murphy, 1018 Forrest Place, Fifth ward, $936.
Charles H. Myers, 641 West Mulberry street, Tenth ward, $936.

Alfred Moore, 135 Chestnut avenue, Twenty-second ward, $936.
William J. Morrow, 617 East Chase street, Eighth ward, $936.
William A. Mattern, 940 Harford avenue, Eighth ward, $936.
William L. F. Miller, 603 North Payson street, Nineteenth ward, $936.
Hinkle Matthews, 1727 Ensor street, Eighth ward, $936.
Charles H. Myer, Ninth ward, $936.
James F. McCabe, 713 North Eden street, Fifth ward, $936.
Charles J. McCourt, 543 Quarry avenue, $936.
James M. McGeeney, 1216 Jackson street, Third ward, $936.
James McIntyre, 1218 Myrtle avenue, Eleventh ward, $936.
John McHugh, 3 Montebello avenue, Twenty-second ward, $936.
Michael McKenna, 1009 E. Hoffman street, Sixth ward, $936.
Patrick McLain, 1430 Holbrook street, Eourth ward, $936.
Michael McNeal, 1010 Forrest place, Fourth ward, $936.
Charles J. McShane, 710 East Chase street, Fifth ward, $936.
Harry H. McDonnell, 423 East Chase street, Eighth ward, $936.
W. S. Newnam, 908 North Carey street, Nineteenth ward, $936.
Charles F. O'Neill, 722 Third avenue, Twenty-second ward, $936.
Frank O'Neill, 107 Parkin street, Thirteenth ward, $936.
James O'Neill, 1727 Forrest place, Eleventh ward, $936.
Thomas J. O'Neill, 455 West Twenty-fourth street, Twenty-second ward, $936.

G. F. Owens, Clerk, 1620 Mosher street, Twelfth ward, $936.
Thomas J. Pendergrast, 415 East Twenty-fourth street, Eighth ward, $936.
William A. Pick, 1004 Orleans street, Fifth ward, $936.
Thomas Powers, 1015 East Biddle street, Ninth ward, $936.
Francis T. Pyles, 1616 West Franklin street, $936.
Augustus Reinhardt, 1618 East Baltimore street, Ninth ward, $936.
Michael J. Reynolds, 1034 Hillen street, Ninth ward, $936.
John Rafferty, 133 North Exeter street, Fourth ward, $936.
James J. Ryan, 1118 Ensor street, Eleventh ward, $936.
Albin A. Ryan, 1618 East Lanvale street, Fifth ward, $936.
John J. Rupprecht, 1626 Milliman street, Fifth ward, $936.
Henry M. Reynolds, 1015 Myrtle avenue, Eleventh ward, $936.
Edward M. Ramsey, Twenty-first ward, $936.
John Schleigh, 407 Girard avenue, Eighth ward, $936.
Michael J. Sheehey, 426 Girard avenue, Eighth ward, $936.
George A. Smith, 1030 Valley street, Eighth ward, $936.
Charles W. Spicer, 1810 Aiken street, Twenty-second ward, $936.
Andrew J. Spies, 582 Oxford street, Eleventh ward, $936.
John H. Steuernagel, 1121 North Calhoun street, Twentieth ward, $936.
George T. Strout, 1039 North Broadway, Seventh ward, $936.
Notley W. Simpson, 424 East First street, $936.

Edward Stempel, 657 Portland street, Fourth ward, $936.
Joseph H. Spence, 722 North Wolfe street, Fifth ward, $936.
Florence A. Seipp, Matron, $520.
Daniel Schwab, 1407 East Fayette street, Fourth ward, $936.
William Steinman, Jr., 745 North Gay street, Fifth ward, $936.
William M. D. Smith, 14 South Front street, Fourth ward, $936.
Daniel J. Tankersley, 236 North Chester street, Sixth ward, $936.
Jacob T. Tawney, 202 South Washington street, Fourth ward, $936.
William A. Thompson, 3434 Chestnut avenue, Twenty-second ward, $936.
John D. Todd, 406 Third avenue, Twenty-second ward, $936.
Washington Tress, 1616 East Lafayette avenue, Seventh ward, $936.
James W. Trott, 116 North Mount street, Ninth ward, $936.
John Tuohy, 1318 Hillman street, Eighth ward, $936.
Jeremiah W. Tritel, 525 North Washington street, Fifth ward, $936.
Charles A. Ulbig, 1302 East Lexington street, Fourth ward, $936.
Charles H. Uhing, 618 Gorsuch avenue, Twenty-second ward, $936.
George C. Velker, 1718 Harford avenue, Eleventh ward, $936.
Horace E. Van Tassell, Sergeant, 107 East Franklin street, Ninth ward, $1,040.
Clarence Walmsley, 324 East Biddle street, $936.
Michael E. Ward, 1027 Homewood avenue, Eighth ward, $936.
William C. Warner, 1324 North Central avenue, Seventh ward, $936.

William F. H. Warnsman, 1427 McElderry street, Fourth ward, $936.
Julius G. Wess, 941 Stirling street, Fifth ward, $936.
William H. Whittle, 1117 North Bond street, Fifth ward, $936.
John B. Wilde, 1048 Pennsylvania avenue, Eleventh ward, $936.
Samuel J. D. Wilson, 29 North Patterson Park avenue, Sixth ward, $936.
John F. Wilson, 645 North Schroeder street, $936.
Thomas D. Witters, 1804 Barclay street, Seventh ward, $936.
Edward G. Warden, Sixth ward, $936.

*Western District.*

Louis W. Cadwallader, Captain, 648 Brune street, Twentieth ward, $1,560.
William B. Minor, Lieutenant, 10 North Gilmor street, Eighteenth ward, $1,300.
William Kalbfleisch, Lieutenant, 712 West Mulberry street, Tenth ward, $1,300.
William B. Rowe, Lieutenant, 736 West Fayette street, Fourth ward, $1,300.
Thomas F. Dempsey, Round Sergeant, 1501 East Lafayette avenue, Eighth ward, $1,196.
Thomas J. Hood, Round Sergeant, 2110 Hollins street, Fourteenth ward, $1,196.
Philip R. Berger, Sergeant, 1018 North Calhoun street, Thirteenth ward, $1,040.
John H. Clowe, Sergeant, 864 West Fayette street, Thirteenth ward, $1,040.
Thomas B. Crooks, Sergeant, 1020 North Calhoun street, Thirteenth ward, $1,040.
Charles A. Polton, Sergeant, 1023 North Carrollton avenue, Fourteenth ward, $1,040.
William G. Scott, Sergeant, 741 North Fulton avenue, Nineteenth ward, $1,040.
John F. Singer, Sergeant, 404 North Mount street, Nineteenth ward, $1,040.

William J. Keneally, Sergeant, 1138 West Lombard street, Fourth ward, $1,040.
James K. Dick, Sergeant, 1315 Light street, $1,040.
Harvey J. Aidisson, Twenty-second ward, $936.
John J. Berney, 620 George street, $936.
Alonzo B. Bishop, 1301 North Mount street, Nineteenth ward, $936.
Caleb H. Bortle, 44 Parkin street, $936.
George W. Bowers, 119 South Schroeder street, Thirteenth ward, $936.
Joseph Brunner, 933 Milton place, Tenth ward, $936.
Rachael A. Bailey, Matron, 1134 Barclay street, Eighth ward, $520.
Lawrence J. Bevans, Baltimore county, $936.
Michael T. Carney, 887 West Fayette street, $936.
Owen B. Carney, 122 North Amity street, Thirteenth ward, $936.
Patrick Considine, 1019 North Calhoun street, Tenth ward, $936.
William T. Cullison, 705 West Saratoga street, Tenth ward, $936.
John T. Devan, 808 West Mulberry street, Tenth ward, $936.
Valentine H. Duer, Tenth ward, $936.
Francis D. Flannery, 922 West Fayette street, Thirteenth ward, $936.
James R. Ford, 1304 North Stricker street, Nineteenth ward, $936.
Philip Ganley, 342 South Stricker street, $936.
Frank J. Germershausen, 630 Vine street, Tenth ward, $936.
John H. Henneman, 248 North Pine street, Thirteenth ward, $936.
Henry Horstman, 315 Pearl street, Tenth ward, $936.
Lewis Hosefrous, 826 Edmondson avenue, Thirteenth ward, $936.
Timothy Hughes, 9 North Schroeder street, Eighteenth ward, $936.
Philip B. Hahn, 920 West Lombard street, Thirteenth ward, $936.

Harry E. Hopwood, 108 Pearl street, Tenth ward, $936.
Charles W. Jarboe, 40 South Poppleton street, Thirteenth ward, $936.
Alfred J. Kennedy, 409 North Poppleton street, Thirteenth ward, $936.
John L. Knode, 1106 North Fulton avenue, $936.
Louis E. Leilich, 227 North Fremont avenue, Tenth ward, $936.
Nettie C. Lester, Matron, 709 West Saratoga street, Fifteenth ward, $520.
Thomas P. Lawless, 916 Hollins street, Thirteenth ward, $936.
Joseph H. Mitchell, 1021 Myrtle avenue, Ninth ward, $936.
Jeremiah J. Murphy, 304 South Poppleton street, Thirteenth ward, $936.
William T. Murphy, 326 Park avenue, Tenth ward, $936.
John J. Moffett, Thirteenth ward, $936.
John W. McPherson, 1357 North Stricker street, $936.
John McKenna, 108 North Poppleton street, Thirteenth ward, $936.
John J. Nooney, 622 West Mulberry street, Tenth ward, $936.
William H. Powell, 1031 Forrest Place, $936.
Daniel W. Pfennig, 1341 North Gay street, Seventh ward, $936.
William N. Rider, 1711 Lorman street, Eighteenth ward, $936.
Michael W. Ryan, 918 West Mulberry street, Thirteenth ward, $936.
John C. Reed, 1138 North Calhoun street, Twentieth ward, $936.
George W. Reese, Harford county, $936.
Joseph D. Reinardt, Thirteenth ward, $936.
Nicholas J. Schaefer, 104 North Fremont avenue, Thirteenth ward, $936.
Allen Schley, 1613 West Fayette street, Twentieth ward, $936.

George C. Schmidt, 520 Brune street, Tenth ward, $936.
Rudolph Schroeder, 306 North Poppleton street, Tenth ward, $936.
Harry C. Seibold, 642 Brune street, Tenth ward, $936.
Joshua J. W. Shockley, 1937 Harlem avenue, $936.
Charles H. Sinclair, 934 West Mulberry street, Tenth ward, $936.
John H. Slinkman, 1718 Riggs avenue, Fourteenth ward, $936.
William Smeake, 656 West Saratoga street, Fourteenth ward, $936.
Parker F. Smithson, 2126 West Fayette street, $936.
Louis Spittle, 643 Portland street, Thirteenth ward, $936.
A. J. Strohmer, 325 North Fremont avenue, Tenth ward, $936.
James E. Simmons, Twenty-second ward, $936.
Edward D. Todd, 1025 North Gilmor street, Thirteenth ward, $936.
John T. Tydings, 1926 Edmondson avenue, $936.
William J. Walsh, 1355 North Stricker street, Fourteenth ward, $936.
John H. Weaver, 409 North Gilmor street, Fourteenth ward, $936.
John F. Weber, Fourteenth ward, $936.

*Northwestern District.*

John Baker, Captain, 1553 Argyle avenue, $1,560.
James Manning, Lieutenant, 1435 Argyle avenue, $1,300.
Robert D. Carter, Lieutenant, 165 North Gilmor street, $1,300.
John G. Glynn, Lieutenant, 1003 North Stricker street, $1,300.
Louis Hahn, Round Sergeant, 414 North Mount street, $1,196.
Henry B. Swartz, Round Sergeant, 1123 North Carrollton avenue, $1,196.

James F. Brown, Sergeant, 1621 Pennsylvania avenue, $1,040.
Theodore J. Foster, Sergeant, 1423 West Lafayette avenue, $1,040.
James R. Moog, Sergeant, 1349 North Gilmor street, $1,040.
John J. Santry, Sergeant, 1710 Druid Hill avenue, $1,040.
Patrick B. Tierney, Sergeant, 1028 North Mount street, $1,040.
John W. Wright, Sergeant, 1543 Argyle avenue, $1,040.
Julius Ackerman, Sergeant, 1337 Valley street, $1,040.
Frank J. Plum, Sergeant, 521 Bloom street, $1,040.
Thomas H. Worthington, Sergeant, 2135 West Lexington street, $1,040.
Henry Wicks, Sergeant, 2032 Druid Hill avenue, $1,040.
Frederick K. Seibold, Sergeant, 2131 Pennsylvania avenue, $1,040.
Henry T. Abel, 725 George street, $936.
Benedict B. Adkinson, 1126 North Fulton avenue, $936.
Harry Allen, 1501 Pennsylvania avenue, $936.
William H. C. Bishop, 1146 North Calhoun street, $936.
George Bailey, 1600 Druid Hill avenue, $936.
James J. Bryan, 1734 North Calhoun street, $936.
Walter Burns, 929 North Calhoun street, $936.
Matthew Boone, 1402 Argyle avenue, $936.
Charles C. Batchelor, 1129 Myrtle avenue, $936.
Richard J. Barwick, 2542 Druid Hill avenue, $936.
James D. Casey, 1709 Pennsylvania avenue, $936.
Thomas Clarke, 1334 North Fulton avenue, $936.
James M. Coale, 723 North Payson street, $936.
John P. Coffay, 651 Lafayette avenue, $936.
Patrick S. Costello, 628 West Lafayette avenue, $936.
John W. Coulbourn, 1219 West Mosher street, $936.
John O. Crawford, 539 Gold street, $936.

Martha E. Close, Matron, 1628 West Fayette street, $520.
W. Scott Canby, 615 East Chase street, $936.
Frederick Crawford, 611 East Biddle street, $936.
Edwin W. Cole, 2524 Francis street, $936.
Anthony B. Debring, Turnkey, 2104 Division street, $936.
J. Nelson Demoss, 1537 Retreat street, $936.
Edward J. Dillon, 610 West Lafayette avenue, $936.
Charles P. Dorn, 816 North Mount street, $936.
Bernard Doyle, 1817 West Franklin street, $936.
David Drohan, 1142 North Gilmor street, $936.
John J. Dunn, 820 Ensor street, $936.
William W. Davenport, 2116 Druid Hill avenue, $936.
Hillery J. Elder, 1926 Pennsylvania avenue, $936.
Frederick C. Emerich, 1308 Pennsylvania avenue, $936.
George S. Escavaille, 1057 Myrtle avenue, $936.
Thomas J. Farrell, 611 West Mosher street, $936.
William J. Forrest, 1037 Guilford avenue, $936.
Henry W. Frederick, 610 Pitcher street, $936.
Alfred Freedenburg, 1913 Pennsylvania avenue, $936.
George F. Frock, 1118 Riggs avenue, $936.
George J. Gibson, 968 Franklin road, $936.
Lewis F. Goudy, 1332 West Lafayette avenue, $936.
Lewis Green, 2108 Pennsylvania avenue, $936.
William G. Gruber, 1149 North Fulton avenue, $936.
James H. Glenn, 721 Appleton street, $936.
Charles D. Hahn, 11 North Stricker street, $936.
James M. Hammond, 910 North Mount street, $936.
Edwin H. Hanson, 1123 North Fulton avenue, $936.
William S. Herrick, 2423 Francis street, $936.
Henry R. Hill, 1618 Harlem avenue, $936.
Lee J. Hobbs, 1707 North Carey street, $936.
Michael Hogan, 212 North Arlington avenue, $936.
John Howe, 1523 Argyle avenue, $936.
Charles E. Hurley, 713 North Payson street, $936.
Clinton Heiser, 760 George street, $936.
George M. Hoffman, 1823 Montrose street, $936.

Stewart S. Hobbs, 1430 North Fulton avenue, $936.
George A. Hawkins, Harford county, $936.
Lawrence C. Jacobs, 1809 Division street, $936.
Gilbert C. James, 775 George street, $936.
Daniel Jamison, 1923 Pennsylvania avenue, $936.
John J. Kelly, 1035 West Mulberry street, $936.
William H. Kelly, 214 Dolphin street, $936.
Alfred F. Kuebler, 905 North Calhoun street, $936.
Orlan T. Kelly, 311 North Paca street, $936.
William Knapp, 1313 Winchester street, $936.
George R. Lamb, 1830 Harlem avenue, $936.
Louis Lattier, 1905 Pennsylvania avenue, $936.
Charles J. Lloyd, 231 Dolphin street, $936.
Marcellus W. Love, 2414 Pennsylvania avenue, $936.
Charles Lastner, 1114 Franklin street, $936.
Martin Manger, 2517 Francis street, $936.
James H. Marsden, 1331 North Mount street, $936.
William Meisz, 1840 Harford avenue, $936.
Samuel H. Miller, 1537 North Gilmor street, $936.
George M. B. Miller, 1315 Presstman street, $936.
John J. Monahan, 1722 Harlem avenue. $936.
George E. Myers, 919 North Carey street, $936.
Harriett Magill, Matron, 1433 Argyle avenue, $520.
Jonathan E. Moxley, 839 West Lombard street, $936.
John W. McFarland, Clerk, 618 North Fremont avenue, $936.
John McGrain, 579 Laurens street, $936.
John A. McIntire, 1724 North Calhoun street, $936.
Abbott L. McLain, 1943 Pennsylvania avenue, $936.
James J. Nugent, 702 Appleton street, $936.
Joseph Nevins, 2332 Druid Hill avenue, $936.
Robert T. Noel, 132 Clements street, $936.
Joseph F. Norton, 32 Mount street, $936.
William O'Mears, 1607 Pennsylvania avenue, $936.
George K. Peregoy, 443 North Fulton avenue, $936.
William H. Parks, 2118 West North avenue, $936.
Frederick Putsche, 1434 Argyle avenue, $936.
William W. Pyles, 2109 Fulton avenue, $936.
Peter J. Patterson, 1302 John street, $936.

Joseph W. Renehan, 1818 Division street, $936.
Frank J. Ryan, 2806 Bernard street, $936.
James A. Robertson, 2839 Raynor street, $936.
Levin W. Robinson, 1116 Argyle avenue, $936.
James B. Schilling, 2121 Walbrook avenue, $936.
Jesse E. Shannahan, 1328 North Mount street, $936.
Joseph A. Stack, 577 Laurens street, $936.
James H. Stevens, 1002 North Calhoun street, $936.
William W. Story, 712 North Calhoun street, $936.
Patrick Sullivan, 1541 Argyle avenue, $936.
William F. Swain, 1803 White street, $936.
Paul C. Sloffer, 1725 West Lanvale street, $936.
Frank N. Seidl, 1816 East Lombard street, $936.
Edward J. Talbott, 1353 West North avenue, $936.
Andrew J. Taylor, 249 Roland avenue, $936.
Francis J. Thurley, 2872 West Lanvale street, $936.
John Tighe, 1042 North Arlington avenue, $936.
Alfred C. Vermillion, 1141 Riverside avenue, $936.
James J. Walsh, 649 North Paca street, $936.
William E. Waters, 1921 West Lanvale street, $936.
Millard F. Watkins, 1722 North Calhoun street, $936.
Richard R. Wilderson, 1608 Patterson avenue, $936.
Frank J Zellers, 1210 Greenmount avenue, $936.

*Southern District.*

Bernard J. Ward, Captain, 718½ Saratoga street, $1,560.
Joseph D. Collins, Lieutenant, 1454 Johnson street, $1,300.
John A. Parks, Lieutenant, 1427 South Charles street, $1,300.
George N. Evans, Round Sergeant, 600 Hanover street, $1,196.
Peter Riley, Round Sergeant, 5 West Lee street, $1,196.
William H. Bowen, Sergeant, 146 East Hughes street, $1,040.
William H. Busch, Sergeant, 1702 Hanover street, $1,040.

Louis Chaillon, Sergeant, 736 West Hamburg street, $1,040.
Philip Flood, Sergeant, 103 Bloomberry street, $1,040.
John H. Mayer, Sergeant, 509 West Barre street, $1,040.
Theodore Owings, Sergeant, 13 East Fort avenue, $1,040.
Henry Strieb, Sergeant, 1514 Marshall avenue, $1,040.
Edward Schultz, Sergeant, 653 West Barre street, $1,040.
George W. Sindall, Sergeant, 547 West Barre street, $1,040.
John H. Gooding, Sergeant, 516 Hanover street, $1,040.
William H. Stevens, Seageant, 1448 Battery avenue, $1,040.
Jesse Armiger, Sergeant, 1625 Hanover street, $1,040.
Charles H. McClean, Sergeant, 417 East Hamburg street, $1,040.
Henry G. Allgire, 126 West Ostend street, $936.
Richard S. Browning, 39 East Fort avenue, $936.
Rudolph Bliler, 651 Dover street, $936.
George Baker, 708 Light street, $936.
Charles R. Begnell, 819 Williams street, $936.
Timothy W. Carey, 205 W. West street, $936.
Matthew Cavanaugh, 1037 South Sharp street, $936.
Patrick J. Clark, 1222 South Charles street, $936.
Elmore S. Clayton, 1159 North Stricker street, $936.
Thomas Conway, 1603 Holbrook street, $936.
John W. Craig, 21 East Montgomery street, $936.
Charles B. Cannoles, 1808 Pennsylvania avenue, $936.
Louis Debus, 1009 Leadenhall street, $936.
John Deems, 1542 Hanover street, $936.
William F. Doyle, 1334 Hanover street, $936.
George F. Dull, 1418 East Fort avenue, $936.
Thomas Eagan, 1311 Hanover street, $936.
Martin B. Gallagher, 121 East Montgomery street, $936.
John W. Garrett, 1427 Henry street, $936.
Louis F. Gesswein, 1212 Light street, $936.

Charles M. Gill, 2808 Parkwood avenue, $936.
James A. Graham, 111 West Clement street, $936.
Joseph W. Griffiss, 108 West Clement street, $936.
Peter H. Gumpman, 1514 Clarkson street, $936.
James A. Hardesty, 1823 South Charles street, $936.
George A. Hauf, 15 South Smallwood street, $936.
Charles E. Heideman, 649 West Conway street, $936.
Michael C. Hughes, 754 West Hamburg street, $936.
Philip H. Harrison, 112 West Clement street, $936.
William M. Heinz, 821 West Barre, street, $936.
Nicholas Hays, 113 East Hughes street, $936.
Albert J. Hauf, 717 Hanover street, $936.
Edward C. Johnson, 820 Covington street, $936.
George E. Jones, 1802 Fairmount avenue, $936.
Patrick Kearney, 752 Hamburg street, $936.
George F. Kessler, 1937 Light street, $936.
Harry Knight, 45 East Montgomery street, $936.
Frank J. Kaney, 803 East Fort avenue, $936.
George W. Lamar, 411 East Hamburg street, $936.
George Latchford, 1423 Beason street, $936.
Theodore Lerp, 836 Warner street, $936.
Thomas Loudenslager, 650 West Lee street, $936.
Edward N. Lucke, 828 South Sharp street, $936.
Albert F. Lentz, 1261 Williams street, $936.
Charles E. Lenderking, Clerk, 29 East Ostend street, $936.
William F. Link, 1557 Ludlow street, $936.
Frank H. Madigan, 310 Albemarle street, $936.
John D. Meekins, 1632 South Charles street, $936.
William H. Miller, 1205 Battery avenue, $936.
William H. Mills, 1508 South Charles street, $936.
Thomas Moran, 1538 South Charles street, $936.
Robert L. Morgan, 648 Conway street, $936.
John Murray, 902 Battery avenue, $936.
John Mowbray, Alleghany county, $936.
Joseph McGovern, 710 Reservoir street, $936.
William H. McKew, 1335 Hanover street, $936.
Michael McKew, 2 East Hill street, $936.
James W. McCuen, 1313 Hanover street, $936.

Samuel G. McGee, 214 Warren avenue, $936.
Charles F. Nagle, 15 East Hamburg street, $936.
Patrick Norton, Turnkey, 32 North Mount street, $936.
Thomas Norton, 1206 Battery avenue, $936.
Robert Newell, Alleghany county, $936.
George E. Oelmann, 219 Pennsylvania avenue, $936.
Frank Ostendorf, 1335 South Charles street, $936.
Alice O'Connell, Matron, 1159 West Hamburg street, $936.
David S. Orrell, 2443 Druid Hill avenue, $936.
William H. Perry, 512 West Conway street, $936.
Otto A. Pfaff, 108 East Cross street, $936.
William H. Pfaff, 1108 Battery avenue, $936.
Nicholas Pfister, 1306 Light street, $936.
Annie E. Patterson, Matron, 529 South Chester street, $520.
Henry J. Roemer, 116 East Randall street, $936.
John J. Ryan, 217 East Hughes street, $936.
Peter Ryan, 603 West Lee street, $936.
Timothy Ryan, 1420 West Pratt street, $936.
Francis Rae, 937 South Sharp street, $936.
Perry S. Ross, 410 Hanover street, $936.
Andrew Sauer, 11 West Barre street, $936.
William T. Scarborough, 4 West Henrietta street, $936.
Milton Schenkel, 920 West Barre street, $936.
Joseph R. Schuster, 1000 Riverside avenue, $936.
John S. Schuster, 205 East West street, $936.
Wesley F. Scrivner, 613 West Barre street, $936.
Frederick Seipp, 549 West Barre street, $936.
Robert F. Short, 1222 South Eutaw street, $936.
John Stallings, 810 Scott street, $936.
John C. Stump, 916 South Paca street, $936.
Robert Sullivan, 725 Buren street, $936.
John A. Sweitzer, 1248 William street, $936.
Joseph R. Stubbins, 700 Warner street, $936.
Lewis H. Samm, 1232 Wall street, $936.
Frederick B. Shaefer, 2169 Calverton road, $936.

Maximillian Schanze, 429 West Pratt street, $936.
Lawrence Talbott, 507 West Barre street, $936.
Patrick J. Tighe, 638 Dover street, $936.
H. Clay Travers, 130 West Clement street, $936.
Joseph E. Trott, 1517 West Mulberry street, $936.
Harry E. Tucker, 1624 South Charles street, $936.
Benjamin J. Vaughn, 736 Light street, $936.
Benjamin F. Vickers, 303 South Chester street, $936.
William H. Vogelman, 411 Folsom street, $936.
John A. Walter, 1638 Light street, $936.
William T. Whaley, 1512 Marshall avenue, $936.
George T. Williams, 1410 Battery avenue, $936.
Charles H. Weaver, 128 West Ostend street, $936.
James E. Williams, 1534 Hanover street, $936.
Jacob Wholey, 645 West Lee street, $936.
Thomas A. Williams, 109 East Hughes street, $936.

*Southwestern District.*

John A. G. Schultz, Captain, 1553 Argyle avenue, $1,560.
Robert D. Carter, Lieutenant, 1652 North Gilmor street, $1,300.
William B. Minor, Lieutenant, 10 North Gilmor street, $1,300.
Harvey P. Morhiser, Round Sergeant, 1706 Riggs avenue, $1,196.
William M. Atkinson, Sergeant, 2106 West Fayette street, $1,040.
William T. Bradley, Sergeant, 1122 North Calhoun street, $1,040.
Timothy A. Broderick, Sergeant, 1914 Wilkens avenue, $1,040.
Louis H. Eilbacher, Sergeant, 2245 Wilkens avenue, $1,040.
William S. Appleby, Sergeant, 1716 West Lanvale street, $1,040.
William T. Russell, Sergeant, 324 South Gilmor street, $1,040.

Charles A. Shoemaker, Sergeant, 1328 West Lombard street, $1,040.
Henry C. Smith, Sergeant, 230 North Calhoun street, $1,040.
John R. Saunders, Sergeant, 737 Cumberland street, $1,040.
John J. Fullem, Lieutenant, 213 North Fulton avenue, $1,300.
William A. Nicholson, 2039 Hollins street, $936.
Benjamin T. Allen, 1423 Saratoga street, $936.
Henry T. Arnold, 1336 Lafayette avenue, $936.
Thomas E. Arnold, 707 North Mount street, $936.
Edward R. Brydon, 710 Frederick avenue, Annex, $936.
John Butler, 20 Parkin street, $936.
Thomas E. Burns, 1818 West Lombard street, $936.
Thomas F. Connolly, 1132 West Lombard street, $936.
George Lewis Cook, 1326 Lafayette avenue, $936.
Anthony Creamer, 117 South Fulton avenue, $936.
Ida Cole, Matron, 27 South Arlington avenue, $520.
William H. Collins, 1318 West Pratt street, $936.
James J. Donoghue, 121 South Gilmor street, $936.
Timothy Donovan, 218 North Mount street, $936.
Luke J. Dyser, 32 Garrison lane, $936.
Edward L. DuBois, Clerk, 1503 East Preston street, $936.
Harry C. Dyer, 415 Scott street, $936.
John Egan, 202 South Stricker street, $936.
Martin B. English, 501 North Stricker street, $936.
Jacob Fink, 1105 West Hamburg street, $936.
Martin Fitzmaurice, 1202 Pennsylvania avenue, $936.
William F. Gillespie, 419 North Monroe street, $936.
Joseph Goodwin, 1509 West Lexington street, $936.
Timothy Goonan, 1410 West Pratt street, $936.
George A. Grimes, 204 South Stricker street, $936.
Michael Haley, 405 East Hamburg street, $936.
William A. Hartlove, 2012 Wilkins avenue, $936.
William W. High, 1109 West Mulberry street, $936.
Richard H. Jones, 104 East Hughes street, $936.

William Kaufman, 608 Frederick avenue, $936.
John R. King, 1845 West Baltimore street, $936.
Nicholas A. Kraning, 414 South Stricker street, $936.
John A. Leitz, 106 South Monroe street, $936.
Richard T. Little, 1703 McHenry street, $936.
James J. Lawler, 218 North Carlton street, $936.
Kate Lappe, Matron, 1705 West Lexington street, $520.
Patrick Moylan, 18 Parkin street, $936.
Michael Murphy, 1132 West Pratt street, $936.
James A. McKeldin, 1247 South Eutaw street, $936.
Millard F. McCurdy, 705 McHenry street, $936.
Hugh O'Ferrall, 328 North Gilmor street, $936.
John H. Peregoy, 1236 West Lombard street, $936.
Philip Pfeifer, 1132 Nanticoke street, $936.
Maurice R. Porter, 917 South Paca street, $936.
Matthew Quinn, 1249 West Cross street, $936.
Michael Riordan, 937 Milton Place, $936.
John W. Robinson, 1716 West Lombard street, $936.
George T. Sedicum, 1023 West Cross street, $936.
Jacob Seiler, 310 South Payson street, $936.
Edwin T. Sheppard, 1415 West Franklin street, $936.
Frederick H. Shipferling, 2104 Hollins street, $936.
Stuart J. Smith, Augusta avenue south of Frederick avenue, $936.
Frank Starlings, 1625 West Mulberry street, $936.
Thomas F. Steinacker, 619 Frederick avenue, $936.
Joseph Stieneman, 205 South Mount street, $936.
Kennedy Streett, 1015 West Lombard street, $936.
Charles T. Stallings, 1217 Cross street, $936.
James L. Stichberry, 2145 Wilkens avenue, $936.
Richard S. Tarr, 514 North Mount street, $936.
Michael Walsh, 1207 West Lombard street, $936.
William L. Wedi 2124 Wilkens avenue, $936.
Randolph G. Welsh, 209 South Gilmore street, $936.
Charles Wortman, 2130 Wilkens avenue, $936.
John J. Walsh, 1005 South Eutaw street, $936.

## JUSTICES OF THE PEACE.

Albert M. Sprosser, First ward.
H. Clay Evans, 106 West Saratoga street, Second ward.
Samuel L. Fisher, 602 Aisquith street, Third ward.
N. B. Talbott, 1635 East Fayette street, Fourth ward.
John A. Janetzke, 1739 Bank street, Fifth ward.
Henry Krug, Jr., 322 Courtland street, Sixth ward.
Eugene D. C. Bond, 2137 Jefferson street, Seventh ward.
James B. Lucas, 921 North Caroline street, Eighth ward.
William B. Hammond, 1516 East Biddle street, Ninth ward.
J. Frank Robinson, 714 Aisquith street, Tenth ward.
William D. Wright, 650 York road, Eleventh ward.
C. W. Wisner, 2435 St. Paul street, Twelfth ward.
G. Lloyd Rogers, 1207 McCulloh street, Thirteenth ward.
William V. Cook, 2027 Eutaw Place, Fourteenth ward.
Samuel Affelder, 2002 Eutaw Place, Fifteenth ward.
T. G. Welsh, Sixteenth ward.
George McCaffray, 505 North Carey street, Seventeenth ward.
Peter Sahm, 1135 North Gilmor street, Eighteenth ward.
Henry T. Tapman, 2108 Wilkens avenue, Nineteenth ward.
William H. Cox, 1433 West Lombard street, Twentieth ward.
Walter E. Smith, 47 South Poppleton street, Twenty-first ward.
Edw. A. Maull, 1604 Collins street, Twenty-second ward.
Charles H. Roberts, 1421 Sout Charles street, Twenty-third ward.
James T. Caulk, 227 Warren avenue, Twenty-fourth ward.

## JUSTICES OF THE PEACE—AT LARGE.

John J. Dunn, 403 East Biddle street.
Andrew J. Callars, 1215 Druid Hill avenue.
David H. Lucchesi, 2208 McCulloh street.
John L. Hebb, 13 East Franklin street.
Robert C. Rhodes, 826 Harlem avenue.
J. Henry Baker, 1227 Guilford avenue.
William N. Wamsley, 11 West Mulberry street.
J. Maulsby Smith, Walbrook avenue near Ninth street.
Abraham H. Fisher, 1703 Druid Hill avenue.
Eugene E. Grannan, 1942 Linden avenue.
Lindley M. Huggins, 2418 St. Paul street.
Edward A. Meyer.
William B. Schoen, 1607 Linden avenue.
William Merriken, 118 Milton avenue.
George T. Leech, 1829 North Broadway.
Thomas C. Bierley.
G. Evitt Reardon, 238 West Hoffman street.
Harvey H. Rouzer, 638 North Carey street.
Aldridge Young, 411 St. Paul street.
D. Bride, 619 North Paca street.
Frank H. Deane, 633 West Lombard street.
Ashby Tolson, 405 South Payson street.

## NOTARIES PUBLIC.

William H. Jones, 2436 Maryland avenue.
Samuel S. Boggs, 928 North Fulton avenue.
Felix R. Sullivan, 1728 North Calvert street.
Murray Hanson, 7 West Franklin street.
William W. Cloud, West Arlington.
John Randolph Smith, 2003 Callow avenue.
Louise Frink, 727 Gorsuch avenue.
Edward B. Ambler, 2300 Fairmount avenue.
Meredith Janvier, 18 West Hamilton street.
William B. Ehlen, 5 East Lexington street.
Solomon H. Emanuel, 10 Hopkins Place.
William Stilman.

Emil Heydenreich, 513 North Bond street.
Edwin Eareckson, Jr., 213 Courtland street.
Henry S. King, 1629 Mosher street.
George E. Taylor, 308 Water street.
George Kent, 919 Equitable Building.
Henry W. Rodgers, 922 Equitable Building.
Philemon H. Tuck, 207 North Calvert street.
Frederick S. Axtell, 2128 Callow avenue.
J. Alex. Hilleary, Jr., 411 Fidelity Building.
Charles H. Milliken.
J. Henry Strohmeyer, 622 Equitable Building.
Herbert A. Rossman.
Paul M. Burnett, 216 St. Paul street.
Henry R. Dulany, 219 East Fayette street.
Albert P. Strobel, 5 East Lexington street.
Arthur C. Pierce, 1809 Maryland avenue.
N. F. Burke, 55 South Gay street.
Jasper M. Berry, Jr., 225 St. Paul street.
J. Kemp Bartlett, Jr., 23 Bank of Baltimore Building.
Arthur W. Robson, 133 East Baltimore street.
Henry M. Etchison, 1325 West Lombard street.
George W. Haulenbeek, B. & O. Central Building.
James W. Clayton, 3 Donnell Building.
John Spring, Jr., 216 St. Paul street.
Thomas K. Bradford, Lexington and Courtland streets.
Howard Abrahams, 222 West Madison street.
Robert L. Rhodes, 411 Herald Building.
Wilmer Emory, 1620 St. Paul street.

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